"Your Roadmap to The Radio Frequencies of The World"

12/79

RADIO COMMUNICATIONS GUIDE

12-79

By
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WARNING Section 605 of the Federal Communications Act of 1934 prohibits persons from disclosing communications which they receive which are not of a general broadcast nature. The act also prohibits persons from using information which they intercept for personal gain. It is advised that all radio monitors make themselves aware of this law, as well as checking to determine if there are any local or state laws which may prohibit or limit monitoring.

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UNITED STATES AIR FORCE IN-FLIGHT COMMUNICATIONS FREQUENCIES-WORLDWIDE

IN-FLIGHT Frequencies are used by the U.S. Air Force Aircraft to contact ground stations and pass along flight operations information, estimated times of arrival, as well as telephone patches . Many times other U.S. Military services such as the Army or Navy also use the frequencies for the same purpose. All ground facilities listed below are run by the Air Force. Andrews AFB is the VIP contact base. Aircraft using the prefix SAM (Special Air Mission) are most often used for VIP transport. SAM aircraft identify with their aircraft ID number. For example the SAM aircraft for the Secretary os State is SAM 86971. The National Security Advisor uses SAM 86972. Aircraft used by the President identify as Air Force One only when the President is on board. At all other times it identifies as SAM 27000. The Vice-Presidential aircraft only identifies as Air Force Two when the Vice-President is on board. At all other times it identifies as SAM 26000. Often you can hear SAM aircraft with a telephone patch to their headquarters at Andrews AFB. The SAM headquarters identifies as SAM Command and is the 89th Military Air Wing of the U.S. Air Force. In addition you may hear aircraft idnetify with the prefix "Executive". This denotes that a member of the Presidential family is on the aircraft. Other regular telephone patches from SAM aircraft are to STATE OPS, which is the Department of State Operations Center and CROWN which is the White House Communications Agency Communications Center.

USB/KHz FREQ.	GROUND STATION & LOCATION
3046	Alconbury, UK @
	Andrews @LSB
	Yokota @
3054	Albrook @
3071	Andrews @
3078	Loring @
3081	Elmendorf
	Lajes
	MacDill
3109	Alconbury,UK @
3137	Incirlik
	McClellan
3144	Albrook-AM
	Andersen
	Hickam
	Thule
3625.5	Curul, Turkey (TUSLOG)
4477	Alconbury, UK
4721	Andrews @
4724	Incirlik @
4729	Hickam @

USB/KHz FREQ.	GROUND STATION & LOCATION
4731	Albrook @
4732	Clark
	Elmendorf
	Scott
4742	Andersen @
	Elmendorf
	Loring @
	Scott
4746	Lajes
	MacDill
	McClellan
4747	Yokota
5025	Hickam @
5505	Kadana @
5688	Andrews @
	MacDill
5700	Andrews @LSB
5703	Croughton
	Elmendorf
	Incirlik
	Lajes
5707	Scott

USB/KHz FREQ.	GROUND STATION & LOCATION
5710	Albrook
	Andrews @LSB
	Croughton-AM
	Elmendorf-AM
	Thule-AM
6305	Scott @
6670	Andrews @
6683	Albrook
	Andrews @LSB (Foxtrot 37)
6688	Albrook Rescue
6715	Andrews @LSB
	Andersen
	Loring
	MacDill @LSB
	Thule
6715.5	Incirlik-AM
6727	Loring
	Scott
6730	Albrook-AM
	Clark-AM
	Loring-AM
	McClellan
	Yokota-AM
6731	Andrews @
	Croughton @
6735	Andrews @
	Lamar @
6738	Albrook
	Andersen
	Clark
	Croughton
	Elmendorf
	Hickam
	Incirlik
	McClellan
	Scott
	Thule
	Yokota
6741	Alconbury, UK
6750	Croughton
	Lajes
	MacDill
6753	Albrook
	Ascension
	Incirlik
	Scott

USB/KHz FREQ.	GROUND STATION & LOCATION
6756	Andrews
	Lamar
6757	Croughton-AM
6760	Andrews @
7735	Andrews @LSB
7873	Andrews @
7995	Andrews @
8176	Scott @ & RTTY
8964	Andrews
	Ascension
	Hickam
	Scott
8967	Andersen-AM
	Andrews @LSB
	Hickam
	Lajes
	MacDill-AM & RTTY
	McClellan-AM
	Thule
	Yokota
8983	MacDill RTTY
8984	Alconbury,UK
8989	Andersen
	Albrook
	Elmendorf
	MacDill
	McClellan
8993	Albrook
	Ascension
	Clark
	MacDill
9007	Andrews @LSB
9011	Croughton
9014	Loring @
9018	Albrook Rescue
	Andrews @
	Scott @LSB
9020	MacDill RTTY
9023	Andrews
	Lamar
	Scott

USB/KHz FREQ.	GROUND STATION & LOCATION
9025	Alconbury, UK
9092	Albrook @
10112	McClellan RTTY (Foxtrot 710)
10194	McChord
10427	Andrews RTTY-XMIT
11171	Andrews @
11176	Albrook Andersen Ascension Croughton Elmendorf Incirlik
11179	Andersen Hickam MacDill Andrews
11180	Andrews @ Andersen
11182	Loring MacDill RTTY-RCVE Scott
11186	Andrews @
11226	Andrews @LSB Clark Croughton-AM Elmendorf-AM Lajes Loring
11228	MacDill-RTTY Thule-AM
11229	Albrook Rescue
11232	MacDill @
11233	Scott
11236	Andrews Elmendorf Scott Yokota
11239	McClellan
11246	MacDill

USB/KHz FREQ.	GROUND STATION & LOCATION
11247	Clark Yokota @
11249	Andrews @ MacDill McClellan
11257	Alconbury, UK
11271	Lajes
11407	Ascension
11460	Andrews @
13201	Andersen Clark Croughton Elmendorf Hickam Loring MacDill-AM McClellan Thule Yokota
13204	Ascension Clark
13210	MacDill RTTY
13215	Andrews @LSB Albrook Andersen Elmendorf Hickam-AM Incirlik-AM Lajes-AM MacDill-RTTY Yokota
13244	Ascension Lajes MacDill
13247	Andrews Lamar
13257	Scott @
13710	Andrews @
14639	Andrews @
14646	Andrews @
14902	Andrews @
15015	Andrews @LSB

USB/KHz FREQ	GROUND STATION & LOCATION
15015	Albrook Loring
15026	Albrook
15031	MacDill-RTTY McClellan
15036	Croughton-AM Incirlik-AM
15038	Albrook
15048	Andrews @
15091	Scott
15687	Andrews RTTY-RCVE
17972	Andrews @LSB Loring MacDill
17992	Albrook @
17993	Andrews @LSB
17999	MacDill @
18002	Andersen Hickam Yokota
18003	Albrook @
18019	Albrook Ascension Incirlik @ MacDill Clark
18023	MCClellan
18027	Andrews @LSB (Foxtrot 711)
20885	Andrews @
23265	Andrews @
23325	Andrews @
25578	Andrews @

-TERMS-

(AM) denotes that the station operates on the AM mode and not on USB. (@) denotes that this frequency is used on a tactical basis. (LSB) denotes that the station also may operate on Lower side band (LSB). (XMIT) denotes transmit and (RCVE) denotes receive. (RTTY) denotes that Radio Telepype is used. The standard USAF RTTY is "188C" which is 100 words per minute, with an 850Hz shift using a 2KHz center. Space is 2425 with shift being 1575. USAF RTTY "188B" is 100 words per minute, 850Hz shift, using a 2KHz center with space being 1575 and mark being 2425.

Ground Station Id's and Locations

Alconbury	Alconbury AB, England
Albrook	Albrook AB, Canal Zone
Andersen	Andersen AFB, Guam
Andrews	Andrews AFB, Maryland
Clark	Clark AB, Philippines
Croughton	Croughton AB, England
Elmendorf	Elmendorf AFB, Alaska
Hickam	Hickam AFB, Hawaii
Incirlik	Incirlik AB, Turkey
Kadana	Kadana AB, Okinawa
MacDill	MacDill AFB, Florida
McClellan	McClellan AFB, California
Lajes	Lajes AFB, Azores
Loring	Loring AFB, Maine
Scott	Scott AFB, Illinois
Thule	Thule AB, Greenland
Yokota	Yokota AB, Japan
Ascension	Ascension AB, Ascension
McChord	McChord AFB, NJ

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Many IN-FLIGHT stations also transmit coded message broadcasts called FOXTROT broadcasts for the FAILSAFE system. These are broadcast on a regular scheduled basis. Below is the list

Minutes after the Hour	Station
+00	Andersen
+01	Thule
+02	Clark
+15	MacDill
+16	Hickam
+17	Croughton
+24	Albrook
+30	Elmendorf
+31	Incirlik
+32	McClellan
+45	Lajes
+46	Yokota

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HAYWARD AIR TERMINAL ANG RESCUE uses 6715KHz and 7464 & 7851 KHz

BIRMINGHAM MUNICIPAL AIRPORT ANG 12931 KHz/USB & HAYES INT'L CORP at same location uses 5703 KHz/ USB

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U.S. AIR FORCE - - - STRATEGIC AIR COMMAND - - - U.S. AIR FORCE

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The Strategic Air Command (SAC) for short, uses a shortwave or high frequency radio network as part of it's Command and Control operations. Both aircraft, missile silos and ground stations operate on this network. Aircraft use the network to stay in touch with SAC stations around the globe to report operational status and to give their location to the ground stations. Ground stations use this network to stay in contact with their aircraft worldwide as well as for FOXTROT broadcasts to be used with the FAILSAFE system. Foxtrot broadcasts are made on the hour and at regular 15 minute intervels thereafter. In addition they are made on a non-scheduled basis as needed. These FOXTROT messages are used to pass the so called "Go Code" to SAC aircraft and missile silos. In the event that the United States should go to war, the "Go Code" would be issued over this network as well as over other SAC networks. To insure that SAC forces hear the broadcasts they are transmitted also on VLF, VHF, UHF and by satellite. Until the "Go Code" is issued, routine messages are transmitted to tell the aircraft to perform certain functions. Four shortwave transmitter sites are used, they are at Barksdale AFB, La., March AFB, Ca., Westover AFB, Ma., and Offutt AFB, Nb. VLF transmitters are located at Hawes, California and Silver Creek, Nebraska. The VLF system is unique and is called the SLFCS meaning Survivable Low Frequency Communications System. In the event of a nuclear blast, radio waves would not be able to bounce off the ionesphere properly, marking shortwave communications impossible. However VLF would not be affected by this condition and the messages could still get through.

STRATEGIC AIR COMMAND HIGH FREQUENCY NETWORK-FOXTROT

KHz/USB	Channal Name
4725	VICTOR
6761	QUEBEC
9027	ROMEO
11243	AFLA ONE
13241	SIERRA
15041	MIKE
17975	TANGO

Below are listed SAC frequencies which do not carry the Foxtrot broadcasts, but are used from time to time by SAC for air to ground communications.

KHz/USB	Channel Name
4493.5	Echo Two (LSB)
4495	Echo One
5021.5	-
5700	Bravo Quebec
6680	Foxtrot Xray
6871.5	-
7330	Yankee
7476	-
8101	Alfa Papa One
9057	Papa One
11122.5	-
11177.5	- (LSB)
11179	-
11220	Bravo
11494	Lima
14717.5	Bravo
14744	Alfa Tango
14955	Charlie
15034.5	Charlie Quebec
18046	-
18594	Zulu
20631	Whiskey
20890	Delta
21808	Zulu
23337	Uniform
27870	Papa

SLFCS VLF FREQUENCIES

34.5 KHz	Silver Creek, NB
37.2	Hawes, Calif.

Transmissions are in RTTY at 100 words per minute using a 50Hz shift.

UHF FREQUENCIES

311.0 MHz	Primary
321.0 MHz	Secondary

CALL SIGNS

The call signs used by SAC stations, both ground air and silo change on a regular basis. This may be daily, weekly or even every hour. However two call signs are used which do not charge. SKYBIRD means SAC Aircraft and SKYKING means SAC ground station.

SPACE & MISSILE TACTICAL COMMUNICATIONS NETWORK-SAMTEC

The SAMTEC Network is used by the U.S. Air Force to support its Pacific Missile Range and Air Force Space and Missile projects. Stations in this network identify with the call signs listed below, all traffic is on USB.

FREQ-KHz	USE
3163	Secondary
5700	Primary
5822	Secondary
9029	Secondary
13218	Primary
17428	Secondary
372.8	UHF Ops MHz

Call Sign	Station
Abnormal One 0	Vandenburg AFB,CA
Abnormal Two 0	Wheeler AFB,Hawaii
Abnormal Three 0	Kwajalein Test Site
-	Canton Island Site
AGAR	Support Aircraft of the 4050th Test Wing EC-135 Aircraft
PICOPAY	Support Ships

PACIFIC MISSILE FIRING RANGE NETWORK

The Pacific Missile Firing Range is operated by the U.S. Navy. They use a communications network with two land stations. One at Point Mugu Naval Air Station in California which identifies as "PLEAD CONTROL" and the other at Barking Sands,Hawaii which identifies as "OUTRIDER CONTROL". Recover ships use changing call signs such as "Hostile Method". Three USB frequencies are used.

4082	Sands
5080	Both
6746	Mugu

SATELLITE TRACKING NETWORK-USAF

The USAF operates a satellite tracking network. Headquarters at Sunnyvale Air Force Station in California can be heard talking to tracking stations such as Ascension Island on only one frequency, 20265.8 KHz/USB.

U.S. AIR FORCE EASTERN TESTING RANGE

The USAF Eastern Test Range is run by Detachment One of SAMTEC. It is used to support the testing of rockets from Cape Kennedy as well as for tracking and support of those rockets launched from Vandenburg AFB.

Freq-USB	Use
5810	Voice
10780	Voice-Primary
11407	Voice-Calling channel
12107	Voice-Secondary
14756	RTTY-Primary
19640	Voice-Aircraft
19960	Voice
20390	Voice-Secondary
22760	Voice

Call Signs change on a daily basis, except that Cape Kennedy id's as Cape Radio. However The suffix on the call signs remains constant. Below is the suffix list.

Call Sign Suffix	Facility
Zero	Merritt Island (NASA),FL
One	Patrick AFB,FL
Two	Jupiter,FL
Three	Grand Bahama Island
Four	Eleuthera,BWI
Seven	Grand Turk Isld,BWI
Twelve	Ascension Isld
Thirteen	Pretoria,South Africa
Ninty-One	Antigua,BWI
-	Mahe, Seychelles
ARIA	Aircraft
EYESITE	Aircraft

NORTH AMERICAN AIR DEFENSE COMMAND-NORAD

The North American Air Defense Command operates several networks on shortwave. NORAD is made up of units from the Army and Air Force. The frequency of 14894 KHz/USB is used during daylight hours and radio checks on the hour can be heard. Backup frequencies are 9799, 11444 and 20855 KHz. Three transmitter sites are used one at Cheyenne Mountain Complex in Colorado, one at North Bend, Or., and the last at Hamilton, Ca. Transmitter power is 1.o to 2.5 KW.

Also the SAGE-NORAD Network Center at Fort Lee, Virginia operates on 4872 KHz and 6708 KHz and id's as FERTILE.

U.S.A.F. TACTICAL AIR COMMAND

The Tactical Air Command (TAC for short) operates its own communications system which is used by its aircraft in addition to the USAF In-Flight Network.

Primary Frequencies-USB/KHz

6753 8964 13204 18019

Secondary Frequencies-KHz/USB

3032 4746 5703 15091 23206

UHF Frequency-MHz/AM

381.3 Code Name "Golden"

TAC Ground Stations using the above network as well as when using a telephone patch with the In-Flight Network use the call signs listed below to identify.

CALL SIGN	IDENTITY
Fireside One	Langley AFB,VA
Fireside Two	Not in use
Fireside Three	Shaw AFB,SC
Fireside Four	Mountain Home AFB,ID
Fireside Five	Bergstrom AFB,TX
Mainsail	Any Tac Ground Station
Tonight	TAC HQ Langley AFB
Raymond	TAC Command Posts,below
Raymond 1	TAC;ALCC Langley AFB
Raymond 6	George AFB,CA
Raymond 7	Cannon AFB, NM (also uses 3060, 6730, 9014 USB)
Raymond 9	Dyess AFB,Tx
Raymond 10	Hurlburt Field,FL
Raymond 12	England AFB, LA
Raymond 14	Holloman AFB,NM
Raymond 15	Homestead AFB, FL
Raymond 16	316th Unit,Langley AFB
Raymond 17	Moody AFB, GA
Raymond 19	56 TFW, MacDill AFB
Raymond 21	Mrytle Beach AFB, SC
Raymond 22	Nellis AFB,NV (4742 KHz)
Raymond 23	Pope AFB, NC
Raymond 24	Tinker AFB, OK
Raymond 25	Seymour Johnson AFB (8711.5)
Raymond 26	Shaw AFB, SC
Raymond 27	Mt Home AFB, ID
Raymond 28	Bergstrom AFB, Tx

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SELFRIDGE ANGB,MI uses 6086 & 11757 KHz

ATLANTIC UNDERSEA TEST & EVALUATION CENTER, OPERATED BY R.C.A. CORP

Located in West Palm Beach and on Andros Island in the British West Indes, the Navy uses these facilities for testing. West Palm id's as IRONRID and Andros as IRONROD ONE.

4825 KHz/USB West Palm Beach
5176 KHz/USB Andros Island

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SOUTH AMERICAN COMMAND NETWORK-USAF

The Air Force operates a communications network to link the Military Ataches located at South & Central American Embassys. The Network Control Station for this Net is at Albrook AFB in the Canal Zone.

Channel Number	Freq-USB
1	3503
1	20885
2	7430
3	10935
4	13950

Call Sign	Location
LQU21	Argentina
VPL1D5	Belize
CPP67	Bolivia
CEF5U1	Chile
5KO225	Columbia
T1ZUSA	Costa Rica
H1P491	Dominican Republic
HCU51	Ecuador
YS1UKE	El Salvador
TDMG3	Guatemala
ACH	Haiti
HR1MM	Honduras
YN1AFM	Nicaragua
ZPM261	Paraguay
OAE21	Peru
CXC20	Uruguay
YWA6	Venezuela

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USAF TRAINING NET 9218.5 KHz

PROJECT LINE BACKER, Guantanamo Bay 4450, 4501, 4761, 12223, 15868

PEASE ANGB, NH 8731 KHz/USB

GREATER PITTSBURG INT'L AIRPORT ANG 14651.5 KHz/USB

KEY FIED,MS ANG 17307 KHz/USB

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U.S.A.F. TACTICAL CALL SIGNS

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The US AIR FORCE uses tactical call signs to help keep the identity of the staion transmitting secret. Some of these call signs change on a daily basis. Others however continue in use for long periods of time. Below is a list os those currently in use.

Call Sign	Facility	Use
Acrobat	Andrews AFB, MD	HF 8041/10586
Acrobat	MacDill AFB Tactical Control	HF 6690/7935
Anchor Control	Rhein-Main AB Operations Center,Germany	UHF
Apache	Alburque Int'l Airport	UHF-372.2 MHz
Assume Control	Zaragoza AB, 406 TFTW Command Post, Spain	UHF/NATO
Behave	Alaskan ALCC Center at Elmendorf AFB	HF
Behold	Upper Heyford RAF, England	UHF/NATO
Bisson Control	Torrejon AB, Spain (NATO Command Post)	UHF
Capsule	General Call Sign for all MAC Aircraft	HF
Crown	White House Communications Agency	HF
Clark Gable	Unknown Presidential Use	HF
Hilda	MAC Operations Center, Scott AFB, IL	HF
Cycler	313-18th Command Post, Kadana AB,Okinawa	UHF
Dilute Control	Wiesbaden AB, Germany Operations Center	UHF
Discard	22nd Air Force Operations Center	HF
Dragnet	Nellis AFB, NV	HF (4339 KHz)
Dropkick	SAC HQ Command Post at Offutt AFB,NB	HF
Eagle	Robbins AFB, GA Maintence -AFRES	HF/UHF 359,2 MHz
Fast Charger	USAF Joint Command-Europe	UHF
Flynet	Nuclear-CBW Emergency Disaster Team	HF/UHF
Glucose	Seymour-Johnson AFB,NC	HF
Gold Coin	Strike Control Command, MacDill AFB,FL	HF
Gull Ops	Keesler AFB, GA MAC Air Use	UHF
Gunnrunner	Robbins AFB, GA ALC/AFRES	UHF 252.1 Mhz
Hornpipe	Cannon AFB, NM	HF MARS
Hotlips Control	Moody AFB, GA	HF
Eva	700 TAS Dobbins AFB, GA	HF
Falcon Five	TAC SOF Seymour-Johnson AFB	UHF- 381.3 MHz
Fury Ops	Bradley Int'l NG, CT	HF
Lactose	Shaw AFB, SC	VHF- 41.90 MHz
Letterman	Hickam AFB, Hawaii Metro Service	UHF
Leto Base	Moron de la Frontera AB, Spain Ops	UHF
Look Ops	Hickam AFB, Hawaii (Weather Recon Sqdn)	HF
Night Hawk	Presidential Helicopters (Marine Corp)	HF
Manakin	South American ALCC Albrook AFB	HF
Phantom 85	European ALCC Center	HF/UHF
Ringmaster	NORAD HQ Command Post, Cheyenne Mountain	HF
Rust Crowd	USAF Radar Assistance, Berlin ATC	UHF
Tonight	Pacific ALCC Hickam AFB, Hawaii	HF
Watchman Duplex	RAF Strike Command High Wycombe	HF/NATO
Wyvern	TAC Supervisor of Flying,Homestead AFB	UHF 280.5 MHz

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NATIONAL GUARD-AIR NATIONAL GUARD-ARMY-ARMY RESERVE CALL SIGNS

Like the Navy and Air Force, the Army and the National Guard and Air National Guard use tactical call signs. Below is a list of those currently in use.

Call Sign	Location	Use
Agitator	USA Fort Bliss, TX	HF
Beach Ball	AFRES 442 TAW Richard-Gebaur AFB,MO	UHF-252.1 MHz
Blackjack	NG Keno,NV Control	VHF- 49.9 MHz
Borage	Condron AAF, NM USA	HF
Cajun Ops	New Oleans NAS AFRES,LA	VHF 41.5MHz
Casket	USA Braggs AAF, NM	HF
Civil Genius	USA STRATCOM Ft Huachuca, AZ	HF
Clover Control	USA Michael AAF, Dugway Proving Grounds,UT	UHF 322.6
Condor	General call for Army Ground Communications Vans	UHF/HF
Daggett	USA Bicycle Lake AAF, Ft Irwin,CA	VHF 38.9MHz
Darr Control	AFRES Mather AFB, CA	UHF 351.2Mhz
Dragon Ops	USA Seoul AB CRC Kerea	VHF 62.45Mhz
Halibut	USA Truth or Consequences,NM	HF
Laredo Control	Schwabiseh Hall AAF, Germany USA	VHF
Lee Ops	Petersburg Municipal Airport, VA USA	VHF
Liberty	AR Stewart, NY Operations	UHF-241.0 MHz
Mast Ops	USA Charles Kelly Heliport, Ft Sam Houston,TX	VHF 30.5
Pikeside Control	Eastern West Virginia Regional Airport ANGB	UHF 297 MHz
Safari	Air Defense Radar Reuqest, Spain	UHF
Schooner Ops	Stockton Airport NG, CA	VHF 41.8MHz
Seabee	Greater Wilmington ANGB, DE	HF 4342.5 KHz
Shark Ops	Fresno NG, CA	UHF 255.8 MHz
Show Me Zulu	NG Springfield, MO Operations	VHF
Spartan Control	Mather AFB NG, CA	VHF 41.0MHz
Spur Control	439 TAW Westover AFB, MA	UHF
Stargazer	Aircraft needing radar assistance.Pacific	UHF 278.4 MHz
Tar Ops	Gulfport Municipal Airport NG, MS	UHF 241.0 MHz
Teal Ops Control	AFRES Keesler AFB,MS	UHF
Trice Ops	AFRES Greater Pittsburg Airport, PA	UHF- 252.1 MHz
Toil	Rickenbacher AFB, IN AFRES 302 TAW	UHF
Turgut Service	Request for radar Assistance, Turkey	UHF/NATO
Upset Control	Mitchel Field, WI ANG	VHF/UHF 139.5/351.2
Victor Hotel	ANG Portland International Airport,OR	UHF -288.9 MHz
Victory Radio	USA Wright AAF, Ft Stewart,GA	VHF 41.3 MHz
Voter Control	AFRES Chicago-O'Hare Int'l Airport,IL	UHF 252.1 MHz
Yuccat	US Coast Guard Cutter Glacier WAGB-4	HF
Forscom	Charlie Brown Co. Airport, GA USA	VHF 141.35 MHz
Griffin Ops	Fresno Air Terminal	UHF 291.3 MHz
Outcast	USA Homestead AFB, FL	VHF 41.5 MHz

USA=US Army
NG=National Guard
ANG=Air National Guard
AFRES=Air Force Reserve
ANGB=Air National Guard Base
USAR=US Army Reserve

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USB-KHz	Use
2182	International Rescue
2434	Harbor Control
2550	Disaster Network
2716	Harbor Control
2743.5	USNAVFAC Grand Turk
2836	Harbor Control
3027.5	2nd Fleet, Norfolk
3037	RTTY
3053	Ships, tactical
3060	Atlantic Fleet
3080	ASW
3095	Atlantic Fleet
3109	Ground-to-Air, back up
3112	Harbor Control
3261	NORATS, Norfolk
3265	Atlantic Fleet
4014	Air-to-Ground,Atlantic
4043	NORATS, Norfolk
4243	Aircraft, tactical
4375	Virginia Capes Ops Area
4377	Pacific Fleet
4409	Atlantic Fleet
4623	2nd Fleet, Atlantic
4702	Atlantic Fleet & ASW
4707	ASW Freq/ Foxtrot
4710.5	Aircraft, Atlantic
4711	Aircraft, secondary use
4730	ASW Atlantic
5499	Pacific Fleet
5716	Atlantic Fleet
5722	RTTY
6697	Atlantic, Primary Freq
6720	ASW
6723	Ship/Aircraft/Shore-Primary
6742	ASW, Atlantic
6799	Atlantic Fleet
6992	2nd Fleet, Atlantic
7507	Huricane Warning Net-Pri
7535	Atlantic Fleet
7645	Disaster Net & Aircraft use
7885	ASW Atlantic
7893	ASW Atlantic
8234.5	NORATS, Most Areas
8742	NORATS, Hawaii Area
8972	ASW Atlantic, Freq/Kilo
8976	ASW Atlantic & RTTY
8977	RTTY
8997	Antarctica Aircraft-Ground
9002	Pacific Fleet
9006	Atlantic Fleet
9032	Pacific Aircraft & RTTY
9037	Atlantic Aircraft. sec
9380	Huricane Warning Net-sec
10795	Antarctica-fixed traffic
10280	Pacific Fleet
11049	African Area
11161	Pacific Fleet
11186	Ship-to-shore,Atlantic
11191	Atlantic ASW
11195	Atlantic Fleet
11198	2nd Fleet, Atlantic
11221	2nd Fleet, Atlantic
11227.5	Atlantic Fleet
11234.5	Indian Ocean
11252	Atlantic ASW
11255	Atlantic Fleet
11267	Atlantic-Primary
11261	Pacific Fleet
11263	Canal Zone Area
11410	Pacific Fleet & RTTY
11461	Atlantic Fleet
11570	African Area
13169.5	Pacific Fleet
15022.5	Pacific Fleet
15067	Ships/Aircraft, tactical
15087	Pacific Fleet
17985	Atlantic Fleet
18009	Pacific Fleet

Beer Can Broadcasts continued-

the Sectors are as follows

Sector 3	90^{o}	East to	180^{o}
Sector 2	180^{o}	to	90^{o} West
Sector 1	90^{o} West	to	o^{o}
Sector 4	0^{o}	to	90^{o} East

The U.S. East of the Mississippi is in Sectot 1, West of the Mississippi in Sector two. Europe is in Sector 4.

By using the above information along with the propigation information broadcast over WWV and WWVH you may be able to forcast changes in conditions.

WWV Table of "A" and "K" Indices

A	K	Class
0	0	Quiet
3	1	Quiet
6	2	Quiet
15	3	Unsettled
26	4	Active
49	5	Minor geomagnetic storm
82	6	Major geomagnetic storm
145	7	same
250	8	same
400	9	same

The A Index is Solar Flux and the K Index is geomagnetic activity (daily)

U.S. NAVY TACTICAL CALL SIGN IDENTIFIER LIST

For many years, the Navy never changed their call signs. However recently they have begun to phase out the old type call signs in favor of alfa-numeric call signs. An example of the new type of call sign would be "Yankee Quebec or"Quebec One". These Alfa-Numeric call signs change on a frequent basis. However, many of the old type call signs listed below, are still in use.

Call Sign	Facility
Artesia	Keflavik NAS, ASW Iceland
Astro Light	USS Guam LPH-9
Augusta	CIC Atlantic Fleet
Back Lash	NAVCOMMSTA NDT Yokosuka,Japan
Barbaric	US Navy Facility, Guantanamo Bay, Cuba
Bastile	NAVCOMMSTA NWC, Harold E. Holt, Australia
Batter Up	Any NAVCOMMSTA This Frequency
Beaver	San Clemente NALF, San Clemente Island, California
Bearmat	29 Palms Marine Corps Base Heleiport, Calif.
Blue Angle Base	Pensacola NAS, Flroida
Blue Cat	NAVCOMMSTA NKA, Asmara (Kagnew Station) Ethiopia (Now Closed)
Brickstone Base	Squadron HM-12, Norfolk NAS, Virginia
Blue Eagle	CIC Pacific Airborne Command Post
Bucksaw Base	Glenview NAS, Illinois
Cactus Pete	NAVCOMMSTA NGR, Nea Makri, Greece
Camel Base	Cherry Point MCAS, Naval Reserve Facility, NC - 383.4 MHz
Cast Iron	USS Dale DLG-19
Chant	Fallon NAS, NV
Chuckle	Force Troup HQ, Fleet Marine Force, Atlantic
Chuckwagob Bravo	USS Ely PCE-880
Chuckwagon Echo	USS Emgage MSO-443
Cinder Clock	USS Moinester DE-1097
Climax	USS Enterprise CVAN-65
Clinch	Combat Direction Systems Training Center, Dam Neck, VA
Courage	USS America CVA-66
Disposition	CIC Atlantic Fleet, HQ Norfolk,VA
Dodge Falls	USS Reeves DLG-24
Dunkirk	NAVCOMMSTA NPM, Honolulu, Hawaii
Eagle Cliff	USS John F. Kennedy CVA-67
Earhart	NAVCOMMSTA NSS, Cheltham, MD (Now closed)
Easter	Second Marine Corps Aircraft Wing
Fairfield	USS Saratoga CVA-60
Fanfare	NAVCOMMSTA CNL, Kenitra, Morocco (Now Closed)
Fisher Body	Air Traffic Control, Guantanamo Bay NAS, Cuba
Four Kings	Sigdnella NAS, Sicily, Italy
Fumble Base	Pensacola NAS, FL
Galaxy Cougar	USS Thomas Jefferson SSBN-618
Golden Hawk	Fleet Air Wing 5, Brunswick NAS, Maine ASW Sqdn
Gray Eagle	USS Ranger CVA-61
Gun Train	USS Independance (Not in use at this time)
Haley Base	New River MCAS, NC
Hampshire	Cmdr, Naval Forces Caribbean, Naval Telecommunications Center, Roosevelt Roads NAS, Puerto Rico
Hardball	USS Wiltsie DD-716
Handbook	USS Forestal CVA-59
Hickory Stick	CIC Second Fleet
Holy Stone	Fleet Electronics Warefare Support Group, Detachment
Ivanhoe	CIC Second Fleet, Cmdr Naval Forces Atlantic, Norfolk
Jitterbug	NAVCOMMSTA NBA, Balboa, Canal Zone
Lobo Base	Cherry Point MCAS, NC
Longfellow Base	Andros Island
Longshot	Fighter Sqdn 101 Detachment Oceana NAS, VA
Magic Maker	NAVCOMMSTA NST, Londonderry, Northern Ireland (Now closed)
Midway Island	NAVCOMSTA NAU, Ft Allen, Puerto Rico
Midway Island One	Naval Telecommunications Center, Roosevelt Roads, Puerto Rico
Missionary	NAVCOMMSTA NAM, Norfolk, VA
Moose Ridge	NAVCOMMSTA Kodiak, Alaska
Mustang	USS Coral Sea CVA-43
Nevada Star	NAVCOMMSTA Diego Garcia
Nevada Turtle	Naval Security Group, Bannockburn, Illinois
Old Salt	USS Nimitz CVAN-68
Orange Juice	NAVCOMMSTA NPN, Guam

Outrage	Commander, Submarine Forces, Atlantic
Overwork	Naval Network General Call Sign
Outcry	Marine Corps Air Stations Prefix
Panther	USS Kitty Hawk CVA-63
Pawnee	NAVCOMMSTA AOK, Moron AB, Spain
Phenomon	Jacksonville NAS, Florida ASW
Plead 13	Pt Mugu Pilot Metro Service, Pt Mugu NAS, CA
Port Call	NAVCOMMSTA TFK, Giddavick, Iceland
Potentate	Lajes NAS, Azores ASW
Quartet	Squadron VP-30, Patuxent River NAS, Maryland
Queensland	NAVCOMMSTA NAR, Key West, Florida
Raspberry	Naval Air Stations Prefix
Rawhide Base	Squadron VRC-40, Norfolk NAS, VA
Researcher Base	Squadron VXN-8 Patuxent River NAS, MD
Rip Tide	USS Franklin D. Roosevelt CVA-42
Sheriff	Bermuda NAS ASW
Sky Raider	Washington NAS, DC
Silverdale	Marine Coprs Air Stations Prefix, Pacific
Sleepy Hollow	NAVRADSTA NAA, Cutler, Maine
Spartan	USS Lexington CVT-16
Spoon	Jacksonville Operations Area Coordinator, Florida
Steel Head	USS Noa DD-841
Stonewall	CIC Pacific Fleet
Strongbox	Naval Network Call Designator
Swing Base	Norfolk NAS, VA
T-Bone	NAVCOMMSTA NUD, Adak, Alaska
Telescope	CIC Pacific Fleet
Time Saver	NAVCOMMSTA NNI Bagnoli, Italy
Torreador	NAVCOMMSTA NPG, San Francisco, CA
Tugboat Annie	Virginia Capes Operations Area Coordinator
Trust Fund	NAVCOMMSTA NAF, Newport, RI
Tophand	Chief of Naval Operations
Viewpoint	Third Marine Corps Aircraft Wing
White Tree	NAVCOMMSTA NPO, Philippines
Wild Root	Patuxent River Naval Reserve Detachment, MD
Windel Bunker	Guantanamo Bay NAS, Marine Corps Firing Range
Woodpecker	Memphis NAS, TN
Yellow Blood	HQ Fleet Marine Force, Pacific
Youthful	Naha NAS, Okinawa
Biddy	Naval Air Station Prefix, for Japan

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US NAVY INTERNATIONAL CALL SYMBOLS

NJSM	Any allied merchant ship
NMMZ	All US Coast Guard ships on station and enroute to and from Ocean Stations in the Atlantic
NNGA	US Submarines enroute to or from Northern combat areas, Atlantic
NOMV	US Submarines, enroute to or from Southern combat areas, Atlantic
NPDJ	US Submarines on Patrol in Northern combat area, Atlantic
NQSZ	Any or all antisubmarine warfare surface forces, Pacific
NRMS	All allied merchant ships
NTLQ	US Submarine Forces on Patrol in Southern combat areas, Atlantic
NUKO	All ships copying mercast
NUMS	Any merchant ships
NUZU	All U.S. surface craft, Gulf Sea Front
NYOS	Any or all U.S. Coast Guard ships

D.C.P.A. -- DEFENSE CIVIL PREPAREDNESS AGENCY -- D.C.P.A.

The Defense Civil Preparedness Agency (DCPA for short) is a division of the Department of Defense whose job it is to maintain communications in time of Emergency. To support that role, the DCPA has set up a large communications network, which it tests on a regular basis. The transmitter sites are manned both by DCPA civilian employees and U.S. Army personal. The VIP support facilities are all located deen inside mountains and would be used to house key government personal in time of emergency.

FREQUENCY: KHz/USB

3341
4780 (Foxtrot 50)
5220
5962.5
6107.5
6150
6907
7340 (Foxtrot 51)
7460
10493
11721
11801
11957 (Foxtrot 73)
12216 (RTTY)
14450
17649

REGION #1, MAYNARD, MASS. (KPA71)	
Maine	KNC44
New Hampshire	KNC45
Vermont	KNC46
New York	KNC47
Mass.	KNC48
Conn.	KNC48
Rhode Island	KNC50
New Jersey	KNC51
Puerto Rico	KFK93

REGION #2, OLNEY, MD (KPA72)	
Penn.	KNC52
Maryland	KNC54
West Virginia	KNC55
Deleware	KNC56
Virginia	KNC57
Dist of Col.	KNC28

REGION #3, THOMASVILLE,GA (KPA73)	
Kentucky	KNC58
North Carolina	KNC59
Tennessee	KNC60
South Carolina	KNC61
Georgia	KNC62
Alabama	KNC63
Mississippi	KNC64
Florida	KNC65
Canal Zone	KPA29

REGION #3, BATTLE CREEK,MI (KPA64)	
Ohio	KNC53
Michigan	KNC66
Wisconsin	KNC67
Minnesota	KNC68
Indiana	KNC69
Illinois	KNC70

REGION #5, DENTON, TX (KPA65)	
Arkansas	KNC71
Oklahoma	KNC72
New Mexico	KNC73
Louisiana	KNC74
Texas	KNC75

REGION#6, DENVER,CO (KPA66)	
North Dakota	KNC76
South Dakota	KNC77
Wyoming	KNC78
Iowa	KNC79
Nebraska	KNC80
Colorado	KNC81
Missouri	KNC82
Kansas	KNC83
Utah	KNC84

REGION #7, SANTA ROSA, CA (KPA67)	
Nevada	KNC85
California	KNC86
Arizona	KNC87
Hawaii	KNC88

REGION#8, BOTHELL,WA (KPA68)	
Montana	KNC89
Idaho	KNC90
Washington	KNC91
Oregon	KNC92
Alaska	KNC93

VIP SUPPORT FACILITIES	
Ft Myer,Virginia	WAR21
Ft Belvoir	WAR22
Hagerstown,MD	WAR30
Mt Weather,MD	WAR42
Mercersburg,PA	WAR45
Ft Richie,MD	WAR46
Boonsboro,MD	WAR47

The Civil Air Patrol operates Rescue Missions on a 24 hour a day, 365 day a year basis. The frequencies and call signs listed below are used between aircraft, base stations, mobile units and ships to coordinate the rescue efforts.

REGIONAL AREAS

REGION	HEADQUARTERS LOCATION	CALL SIGN	TACTICAL CALL SIGN	NET ID
North Eastern (NE)	Mineaola, NY	KGC632	1FDG	1ZAU
Middle East (ME)	Shaw AFB,SC	KIL769	2VHP	2K87
Great Lakes (GL)	Wringt Patterson AFB,OH	KSF248	35NP	3D6I
South East (SE)	Nashville, Tn	KIJ960	4HRG	4S08
North Central (NC)	Minneapolis, MN	KAJ506	5QRF	5BM2
South West (SW)	Dallas, TX	KKQ266	6W25	6Q8M
Rocky Mountain (RM)	Lowrey AFB, CO	KAI562	7V5A	7P2K
Pacific (P)	Hamilton AFB, CA	KMG664	8NIK	8J68
HQ USAF CAP	Washington, DC	KGC463	AZ64	
Chairman, CAP			NOOB	

FREQUENCIY USAGE

FREQ-KHZ USB	REGION
2372	
4275	NE ME GL
4350	ME
4464.5	EC
4469	EC
4506	MW WC
4509	MW WC
4585	ME EC
4586	Hawaii
4602.5	MW
4604	MW
4627	SW
4631.5	SW

FREQ-KHz USB	REGION
5767.5	SW RM
6770.5	SE
7636.5	
11120	P
14903.5	
18206.5	P
20874.5	SE
26620	

AM-VHF-MHz	
122.9	Search & Rescue
123.1	Search & Rescue
143.90	Repeater Input, Ground Units
148.15	Repeater Output, Ground Units

State Listing for CAP Organizations:

Location	Tactical	Call Sign	Base ID	Mobile ID	Airborne ID
ALABAMA	A62U	KIG442	GOLDEN ROD	HOT ROD	RAM ROD
ALASKA	BE90	KWA677	SOUR DOUGH	MUKLUK	AURORA
ARIZONA	BZ8S	KOF424	THUNDERBIRD	GERONIMO	TOMAHAWK
ARKANSAS	B620	KKI719	DOGWOOD	RAZORBACK	DIAMOND
CALIFORNIA	B650	KME284	WHITEBEAR	BLACKBEAR	BROWNBEAR
COLORADO	DI13	KAF357	PIKES PEAK	RED RIVER	BLUE RIVER
CONN	DJ46	KCC590	NUTMEG	RAMBLER	ROCKET
DELEWARE	D793	KGC462	GABBY	VAGABOND	BARFLY
GEORGIA	FJ1G	KIG443	RED STAR	WHITE STAR	BLUE STAR
FLORIDA	EL9U	KIG444	SPARROW	CRANE	EAGLE
HAWAII	F23I	KUA341	FIREBRAND	MOBILE	HIBOY
IDAHO	GQ7E	KOP334	MAGPIE	RABBIT	HORNET
ILLINOIS	JT96	KSC952	RED FOX	YELLOW FOX	BLUE FOX
INDIANA	JY79	KSC953	RED FIRE	BLUE FIRE	GREEN FIRE
IOWA	KF1L	KAF358	CORN STATE	BULL DOG	CYCLONE
KANSAS	KI5T	KAF359	JAYHAWK POST	JAYHAWK BUG	JAYHAWK BAT

LOCATION	TACTICAL	CALL SIGN	BASE ID	MOBILE ID	AERONAUTICAL-ID
KENTUCKY	K53A	KIG445	MIDDLEGROUND	WHIRLAWAY	JET PILOT
LOUISIANA	L11R	KKI720	MAGNOLIA	MUSKRAT	PELICAN
MAINE	L43P	KCC591	PINETREE	PINECAR	PINEAYR
MARYLAND	N290	KGC464	PLAT	TUG	JET
MASS.	N74U	KCC592	FREEDOM	PILGRUM	CLIPPER
MICHIGAN	OJ3U	KQD405	RED ROBBIN	WHITE ROBBIN	BLUE ROBBIN
MINNESOTA	O24N	KAF360	STAR FISH	DOG FISH	CAT FISH
MISSISSIPPI	PN92	KKI721	MOCKING BIRD	JAY BIRD	SNOW BIRD
MISSOURI	PZ37	KAF361	BLUE BIRD	RED BIRD	BLACK BIRD
MONTANA	P83W	KOF426	FATHER	MOTHER	ANGEL
NEBRASKA	RO8U	KAF362	WIGWAM	BUFFALO	MEADOWLARK
NEVADA	RQ29	KOP335	NORTHWIND	YELLOW JACKET	RED SPIDER
NEW HAMPSHIRE	SN5S	KCC593	PROFILE	BOB CAT	SAUCER
NEW JERSEY	S54P	KEC994	ZIG ZAG	DOMINO	AIRCAP
NEW MEXICO	T865	KKI772	PUEBLO	ZUNI	NAVAJO
NEW YORK	UE5K	KEC995	EMPIRE	TOMCAT	WILD CAT
NORTH CAROLINA	UF6M	KIG446	RED DOG	BLUE DOG	MAD DOG
NORTH DAKOTA	UI6Y	KAF363	BLACKFOOT	SIOUX	MOHAWK
OHIO	VX2G	KQD406	BLACKHAWK	GRAYHAWK	WHITEHAWK
OKLAHOMA	V92U	KKI723	SCONER	OIL WELL	GAS WELL
OREGON	XE7F	KOF428	BEAVER FOX	BEAVER MUSKRAT	BEAVER BIRD
PENN	YB9I	KCC465	KEYSTONE	ROLLING STONE	FLIGHT STONE
PUERTO RICO	93UI	WWA353	PINEAPPLE	SUGAR	PAVA
RHODE ISLAND	Y188	KCC594	RHODY	LITTLE RHODY	AIR RHODY
SOUTH CAROLINA	ZK6T	KIG447	KIDDIE CAR	SIDE CAR	BOX CAR
SOUTH DAKOTA	OJCZ	KAF364	DACOTHAH	MANDAN	CHEYENNE
TENNESSEE	OV19	KIG448	BLUE CHIP	RED CHIP	GOLD CHIP
TEXAS	83CR	KKI724	EAGLE NEST	GOLD EAGLE	BLUE EAGLE
UTAH	89VX	KOF429	UNCLE WILLIE	UNCLE MIKE	UNCLE ABLE
VERMONT	9DXH	KCC595	PICO	MARBLE	MANSFIELD
VIRGINIA	9F6J	KIG449	BLUE FLIGHT	GREEN FLIGHT	RED FLIGHT
WASHINGTON	9KYj	KOF430	FUR	MAPLE	ASH
WEST VIRGINIA	9N7T	KQD407	LOW LAND	OVER LAND	HIGH LAND
WISCONSIN	9OZ1	KSC954	BADGER	SCOOTER	BUZZARD
WYOMING	91OY	KOF431	KING	QUEEN	JACK
NATIONAL CAP	QZ3W	KGC463	AERO	AERODYNE	AERONAUT

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The U.S. AIR FORCE transmits propigation forcasts on a scheduled basis. These broadcasts are code named "BEER CAN" at are transmitted at +15 and +45 minutes after the hour on 4590, 7540 and 13993 KHz, USB. The forcast is updated every six hours. Two staions made the broadcasts, AGA3HQ at Scott AFB, Illinois and AIR at Bolling AFB in Maryland. After identifing the stations transmit a message in standard form. The first two digits are the date of the forcast followed by the next four digits which are the hour that the forcast was last updated. The words that follow are listed below with their meaning:

HOTEL	Significant Sudden Ionospheric disturbance of up to ½ hour (followed by the Zones)
INDIA	same as above but lasting 1 hour
JULIET	Ionospheric storm under 6 hours (followed by zone)
KILO	Ionospheric storm over 6 hours
OSCAR	Moderate Sporadic E skip
PAPA	Heavy Sporadic E skip
QUEBEC	Heavy Radio Noise
ROMEO	Heavy Fading
SIERRA	MUF normal
TANGO	MUF high to 25%
UNIFORM	MUF high to 50%
VICTOR	MUF high to75%
WHISKEY	MUF low to 10%
XRAY	MUF low to 25%
YANKEE	MUF low to 50%
ZULU	Radio blackout

MUF is the Maximum usage frequency

The Air Force Divides the world into radio zones as follows: ALPHA above 70°N/S BRAVO is 60°-70° N/S, CHARLIE is 30°-60° N/S, DELTA is 10° - 30° N/S, and ECHO is 10° N - 10°S. These are called regions.

Continued

What types of transmissions can shortwave listeners hear? Three types, aircraft, land stations and ships,

The land stations can be divided into several groups. The most often heard land stations are the Communications Stations (or COMSTA's). The Coast Guard has COMSTA's at Boston (NMF), Miami (NMA), Portsmouth (NMN), New Orleans (NMG), Ketchikan (NMJ), Kodiak (NOJ), Honolulu (NMO), San Juan (NMR) and St Louis (NML). These stations broadcast scheduled weather forcasts and conduct regular traffic with most Coast Guard Cutters. In addition when an Air Station is unable to maintain contact with its aircraft due to any reason, a COMSTA will take over contact. In addition these COMSTA's also use the International Distress frequency os 2182 KHz.

The Second group of land stations are the Light Stations and Coast Stations. It is these stations which dot the coastline of America. Some of these stations use the 2MHz frequencies listed in this book and some just use VHF only. Most rescue operations are started by a Coast Station or Light Station. At most of these stations are smaller boats (under 82 feet in length). These are used for near shore rescue. In addition, when needed these stations will talk to Cutters and to aircraft.

The Third group of land stations are the Loran Stations. Loran stations broadcast radiodirection finding signals throughout the world. To coordinate their operations they use shortwave fixed circuita a list of which will follow this article.

In the Coasr Guard, all ships over 82 feet in length are called Cutters. Following this article is a list of the Coast Guard Cutters, their ITU Call Signs and mailing addresses. Most cutters monitor 2182 KHz while under way. They use mostly 2MHz frequencies for rescue operations. In addition most High Endurance and Medium Endurance Cutters also have law enforcement duties. These ships patrol the 200 mile limit for unlicensed fishers and drug runners. Often 2 MHz and high frequencies are used. Also aircraft frequencies may be used when Coast Guard Aircraft are involved.

Once in a while you may hear a station identify with the prefix "Ocean Station". An Ocean Station is a ship that stays in a fixed location for a long period of time broadcasting weather information, and conducting oceanographic research. There are about a dozen Ocean Stations and all have fixed locations.

Coast Guard Aircraft identify with a four digit number called a wing or tail number. A list of which are included in this book. Each aircraft in flight must maintain contact with a ground station. Most often this is the Air Station from which the aircraft took off. However sometimes COMSTA's will serve this function. When one ground station passes off the aircraft to another, it is called "Taking the guard". Most helicopters are required to check in every 15 minutes while aircraft check in every half hour. Aircraft preform several functions, rescue, law enforcement and pollution patrol.

The list of Coast Guard Cutters contained in this book can be used to obtain the addresses for the Cutters so that you can QSL (Verify) reception. No other station addresses are contained in this publication. There are many hobby type publications which give detailed lists of addresses. However since most of the persons who use this book, listen only, I did not include other address information.

U.S. COAST GUARD AIR STATIONS

The Coast Guard Maintains two types of Air Stations. The first type has both airplanes and helicopters and the second type, helicopters only. When using the radio, the aircraft identify with their tail number which is a four digit number, a list of which appears later. The Air Stations identify by using their name followed by the word "Air" such as "Chicago Air". Also you will find some Coast Guard Communications Stations like New Orleans operate on the Air circuits to talk with the aircraft.

FREQ-USB

KHz	User
2103.5	Intra Coast Guard Use, Ship, Shore and Air
2141	Air Stations in Alaska
2182	International Distress
2261	All Air Stations
2667	Intra Coast Guard Use, Ship, Shore & Air
3023.5	International Distress
3120	Type two Air Stations
3123	Type one Air Stations
3411	Air Stations in Alaska
4335	All Air Stations
5422.5	Intra Coast Guard Use, Ship, Shore & Air
5680	SAR, on Scene Use
5692	Type two Air Stations
5696	Type one Air Stations
6381	Air Stations in Alaska
8364	Survival Craft
8980	Type two Air Stations
8984	Type one Air Stations
11195	Type one Air Stations
11198	Type two Air Stations
11201	Type one Air Stations
15081	Type one Air Stations
15084	Type two Air Stations
15087	Type one Air Stations

The Coast Guard uses many different types of aircraft. The HH52A is a single Rotar Helicopter while the HH3F is a duel Rotar long range Helicopter. Airplanes in use are the HU16E, the C130B and the C-131.

Below is a list of tail numbers of current Coast Guard aircraft.

Tail Number	Type
1016	HU16E
1026	HU16E
1272	HU16E
1280	HU16E
1293	HU16E
1311	HU16E
1339 thru 1413	HH52A
1414	C130B
1415 thru 1429	HH52A
1430 thru 1438	HH3F
1439 thru 1450	HH52A
1452 thru 1454	C130H
1455 thru 1466	HH52A
1467 thru 1497	HH3F
1500 thru 1504	HC130H
1600 thru 1603	C130H
5781 thru 5806	C131A
7209	HU16E
7213	HU16E
7214	HU16E
7218	HU16E
7229	HU16E
7234	HU16E
7236	HU16E
7240 thru 7254	HU16E
01	VC11A
02	VC4A

It would be pointless to list the Air Stations the above aircraft are located at, as the aircraft are rotated on a 3 year schedule between the Air Stations.

LIST OF AIR STATIONS

Arcata Air, WA
Astoria Air, OR
Barbers Point Air, HI
Brooklyn Air, NY
Chicago Air, IL
Cape Cod Air, MA
Corpus Christi Air, Tx
Cape May Air, NJ
Boronquen Air, Puerto Rico
New Orleans Air, LA
Elizabeth City Air, NC
St Petersburg Air, FL
Miami Air, FL
Traverse City Air, MI
Mobile Air, AL
North Bend Air, OR
San Francisco Air, CA

LIST OF AIR STATIONS, Continued

Los Angeles Air, CA
Kodiak Air, Alaska
Sitka Air, Alaska
Sacremento Air, CA
Arlington Air, VA
San Diego Air, CA
Houston Air, TX
Detroit Air, MI
Pt Angeles Air, OR

U.S. COAST GUARD LORAN STATION NETS

MEDITERRANEAN LORAN C NET

NCI	Naples (Simeri Crichi)Italy
NCI3	Lampedusa, Italy
NCI4	Kargabarum, Turkey
NCI10	Rhodes, Greece
NCI11	Sardenia, Italy
AOB50	Estartit, Spain
AOB60	Estaca de Vares,Spain (closed)

Frequencies: USB Voice & RTTY

3625.5	8111
3798	10958.5
5066	16044.5
5123	20262.5
6943.5	23088.5
7441	27085
8021.5	

NORWEGIAN SEA & NORTH ATLANTIC LORAN C NET

OVY	Angissoq, Finland
JXK	Bø, Norway
VDB	Cape Race, NFLD
OUN	Ejde, Finland
JXP	Jan Mayen Island
TFR	Sandur,Iceland
DML	Sylt, Denmark
TRF2	Keflavik,Iceland
VBD2	St Anthony,NFLD
NMS	Shetlands

Frequencies: USB Voice & RTTY

3607	10337.5
4857.5	13423
7512.5	13707

EAST COAST NORTH ATLANTIC LORAN C NET

NMN73	Carolina Beach, NC
NOL	Bermuda Monitor
NMF32	Nantucket,MA
NMA7	Jupiter, FL
VDB	Cape Race, NFLD
NMF33	Caribou, Maine

Frequencies: USB Voice and RTTY

2413	7377.5
3256	9278.5
4048.5	11513.5
5313	

WEST INDIES LORAN A NET

NMR14	Cape San Juan,PR
NMA4	San Salvador
NMA5	South Caicos
NMA7	Jupiter, FL

Frequencies: USB Voice & RTTY

2743.5	5422.5
3251.5	7530
4048.5	8083.5
	12150

PACIFIC COAST NET

NMW39	Pt Greenville, WA
VAE2	Spring Island, BC

Frequencies: USB Voice & RTTY

2686 4446 7527

ALEUTIAN ISLANDS LORAN A & C NET

NRW	Cape Sarichef,AK
NRW1	Sitkinak,AK
NRW2	St Paul,AK
NRW3	Pt Clarence, AK
NMJ21	Adak, AK
NMJ22	Attu, AK

Frequencies: USB Voice & RTTY

2748	5317	7441
2809	5422	9073
4531	6812	10368.5
4575	6935	12150
5226	6945	

HAWAII & CENTRAL PACIFIC LORAN NET

NRO	Johnston Island
NRO2	Kauai, HI
NRO4	French Frigate Shoals,HI
NRO5	Upolu Point, HI
NRO7	Kure Island

Frequencies: Voice USB and RTTY

4050	9303
5063	9630
7473	12205

U.S. Coast Guard Cutter List

Name	Call	Hull#	Address
Acacia	NODY	WLB406	Sturgeon Bay,WI 54235
Active	NRTF	WMEC618	New Castle,NH 03854
Acushnet	NNHA	WAGO167	P.O.Box 303, Gulfport,MS 39501
Alert	NZVE	WMEC620	Cape May,NJ 08204
Anvil	NMFN	WLIC75301	P.O. Drawer 1622, Corpus Christi, TX 78401
Apalachee	NRKC	WYTM711	Coast Guard Yard, Curtis Bay, Baltimore,MD 21226
Arundel	NRKQ	WYTM90	Ft of Streeter St, Chicago,IL 60611
Axe		WLIC85310	CG Base, Bldg 101, MAIC, Mobile, AL 36615
Azalea	NOIT	WLI641	196 Tradd, Charleston,SC 29401
Balsam	NRZP	WLB62	Box 47, FPO Seattle,WA 98777
Basswood	NODG	WLB388	FPO San Francisco,CA 96601 (Guam)
Barnes	NVLA	WPB82371	100 MacArthur Cswy, Miami,FL 33839
Bayberry	NBKE	WLI65400	2700 W. Commodore Way, Seattle,WA 98199
Bibb	NRDB	WHEC31	State Pier, New Bedford,MA 02740
Bitt		WYTL65613	%MSO Box 1208, Valdez,AK 99686
Bittersweet	NODH	WLB389	Woods Hole,MA 02543
Blackberry		WLI65303	P.O. Box 668, Southport,NC 28461
Blackhaw	NODI	WLB390	Yerba Buena Island, San Francisco,CA 94130
Blackthorn	NODJ	WLB391	Galveston,TX 77550
Bluebell	NODD	WLI313	6767 N. Basin St, Portland,OR 97217
Blueberry	NOZN	WLI65302	6767 N. Basin St, Portland,OR 97217
Bollard		WYTL65614	120 Woodward Avenue, New Haven,CT 06512
Boutwell	NYCO	WHEC719	FPO Seattle,WA 98799 (Seattle,WA)
Bramble	NODK	WLB392	P.O. Box 786, Port Huron,MI 48060
Buckthorn	NADT	WLI642	Sault Ste Marie,MI 49783
Burton Island	NEVK	WAGB283	FPO San Francisco, CA 96601
Buttonwood	NRPX	WLB306	FPO San Francisco,CA 96601 (Honolulu)
Bridle		WYTL65607	Southwest Harbor, Maine 04679
Cactus	NRZH	WLB270	Astoria,OR 97103
Campbell	NRDC	WHEC32	FPO Seattle,WA 98799 (Pt Angeles)
Cape Carter	NJST	WPB95309	P.O. Box 215, Cresent City,CA 95531
Cape Coral	NEWN	WPB95301	FPO Seattle, WA 98799 (Juneau)
Cape Corwin	NVUN	WPB95326	300 Ala Moana Blvd, Honolulu,HI 96850
Cape Cross	NPDZ	WPB95321	Glouchester,MA 01930
Cape Current	NLIE	WPB95307	P.O.Box 13704, Savanah,GA 31406
Cape Fairweather	NCVB	WPB95314	Ft Trumbull, New London,CT 06320
Cape Fox	NJPO	WPB95316	P.O.Box 10447, Riviera Beach,FL 33404
Cape George	NYRW	WPB95306	State Pier, New Bedford,MA 02740
Cape Gull	NNQF	WPB95304	Huron Avenue, Atlantic City,NJ 08401
Cape Hedge	NZPO	WPB95311	P.O. Box G, Morrow Bay,CA 93442
Cape Henlopen	NYOE	WPB95328	FPO Seattle, WA 98799 (Petersburg,AK)
Cape Horn	NPUF		Woods Hole,MA 02543
Cape Jellison	NJTB	WPB95317	FPO Seattle,WA 98799 (Seward,AK)
Cape Knox	NGBO	WPB95312	100 MacArthur Cswy, Miami,FL 33839
Cape Morgan	NFLW	WPB95313	196 Tradd, Charleston,SC 29401
Cape Newagen	NKCW	WPB95318	Maalaea Harbor, Maui,HI 96793
Cape Romain	NLBB	WPB95319	FPO Seattle, WA 98799
Cape Shoalwater	NSDT	WPB95324	P.O. Box 657, Dania,FL 33004
Cape Small	NCFQ	WPB95300	P.O.Box 694, Hilo,HI 96720
Cape Starr	NJVB	WPB95320	New York, NY 1000
Cape Strait	NQDN	WPB95308	Fprt Tilden,NY 11695
Cape Wash	NOBE	WPB95310	100 Light House Avenue, Monterey,CA 93940
Cape York	NRZV	WPB95322	Key West FL 33030
Capstan	NFKU	WYTL65601	Franklin & Union, Alexandria,VA 22314
Catenary		WYTL65606	Glouchester City,NJ 08030
Chase	NLPM	WHEC718	Boston,MA 02109

Chena		WLR75409	P.O.Box 1343, Natchez,MS 39121
Cherokee	NNGP	WMEC165	USNAVAMPHIB Base, West Annex,Little Creek, Norfolk,VA 23520
Cheyenne	NGXJ	WLR75405	Foot of Iron St, St Louis,MO 63111
Chilula	NPIN	WMEC153	P.O. Box 56, Atlantic Brach,NC 28512
Chock		WYTL65602	4000 Coast Gd, Portsmouth,VA 23703
Cimarron		WLR65502	Rt #1, Box 55, Buchanan,TN 38222
Citrus	NRPQ	WLB300	FPO Seattle,WA 98779
Cleat		WYTL65615	Glouchester, NJ 08030
Clover	NRPK	WLB292	FPO Seattle,WA 98779 (Sitka,AK)
Comanche	NILA	WMEC202	Foot of Commercial St, Eureka,CA 95501
Confidence	NHKW	WMEC619	FPO Seattle,WA 98799 (Kodiak,AK)
Conifer	NRPR	WLB301	P.O. Box 247, Atlantic Beach,NC 28512
Cosmos	NRPL	WLI293	1300 Beach Drive,S.E., St Petersburg,FL 33701
Courageous	NCRG	WMEC622	P.O.Box 1622, Cape Canaveral,FL 32920
Courier	NFKW	WTR410	U.S. Coast Guard, Federal Bldg,Portsmouth,VA 23705
Dallas	NPCR	WHEC716	Governors Island,NY 10004
Dauntless	NDTS	WMEC624	100 MacArthur Cswy, Miami,FL 33139
Decisive	NUHC	WMEC629	New Castle,NH 03854
Dependable	NOWK	WMEC626	Panama City,FL 32407
Diligence	NMUD	WMEC616	Key West,FL 33040
Dogwood	NRZD	WLR259	P.O. Box 7627, Pine Bluff, Arkansas 71611
Duane	NRDD	WHEC33	Maine State Pier, Portland,Maine 04111
Durable	NRUN	WMEC628	Box 1 Star Route, Brownsville,TX 78521
Eagle	NRCB	WIX327	CG Academy, New London,CT 06320
Edisto	NIQU	WAGB284	USCG Base, Curtis Bay, Baltimore,MD 21226
Elderberry	NUKD	WLI65401	FPO Seattle, WA 98799 (Petersburg,AK)
Evergreen	NRXD	WAGO295	Ft Trumbull, New London,CT 06320
Fern	NRPV	WLR304	P.O.Box 302, Dubuque,Iowa 52001
Fir	NRYR	WLB212	2700 W. Commodore Way, Seattle,WA 98199
Firebush	NODC	WLB393	Governors Island,NY 10004
Flagstaff		WPGB-1	CG Base, Woods Hole, MA 02543
Gallatin	NJOR	WHEC721	Governors Island,NY 10004
Gasconade		WLR75401	P.O.Box 12237,Florence Station, Omaha,NB 68112
Glacier	NAAO	WAGB4	FPO San Francisco, CA 96601
Goldenrod	NKOH	WLR213	P.O.Box 367, Koekuk,Iowa 52632
Hamilton	NMAG	WHEC715	Boston,MA 02109
Hammer	NNWM	WLIC75302	900 Seaway Dr,Fort Pierce,FL 33450
Hollyhock	NRXT	WLM220	100 MacArthur Cswy, Miami,FL 33839
Hornbeam	NODM	WLB394	%CG Training Center, Cape May, NJ 08204
Ingram	NRDL	WHEC35	4000 Coast Guard Blvd, Portsmouth, VA 23703
Iris	NODN	WLB395	Astoria,OR 97103
Ironwood	NRPN	WLB297	FPO Seattle,WA 98799 (Adak, AK)
Jarvis	NAQD	WHEC725	FPO San Francisco,CA 96601 (Honolulu,HI)
Kanawha		WLR75407	P.O.Box 3058, Memphis,TN 38105
Kaw	NRKB	WLR75407	Ft of East 9th, Cleveland,OH 44114
Kickapoo		WLR75406	P.O. Box 31, Vicksburg,MS 39180
Kukui	NRCQ	WAK186	677 Ala Moana Blvd, Honolulu,HI 96813

Lantana	NRQX	WLR80310	P.O.Box 299 Hickam, KY 42050
Laurel	NRPJ	WLB291	FPO Seattle,WA 98799 (Ketchikam,AK)
Loganberry		WLI65305	4630 Urquhart, New Orleans,LA 70113
Mackinaw	NRKP	WAGB83	Cheboygan,MI 49721
Madrona	NRPT	WLB302	4000 Coast Guard, Portsmouth,VA 23704
Magnolia	NRVA	WLB328	Yerba Buena Island, San Francisco,CA 94130
Mahoning	NRKW	WYTM91	Governors Island,NY 10004
Mallow	NODO	WLB396	FPO San Francisco,CA 96601 (Honolulu,HI)
Manitou	NRKA	WYTM60	Governors Island,NY 10004
Mellon	NDIT	WHEC717	FPO San Francisco,CA 96601
Mesquite	NRPW	WLB305	P.O.Box 57, Charlevoix, MI 49720
Midget	NHWR	WHEC726	FPO San Francisco,CA
Modoc	NIJB	WMEC194	Box 1179, Coos Bay,OR 97420
Mohican	NRKI	WYTM73	4000 CG Blvd, Portsmouth,VA 23703
Morgenthau	NDWA	WHEC722	FPO San Francisco, CA 96601 (Alameda,CA)
Muskingum		WLR75402	P.O.Box 626, Sallisaw,OK 74955
Narcissus	NRWO	WLI238	Portsmouth,VA 23705
Naugatuck	NRKG	WYTM92	Sault St Marie,MI 49783
Northwind	NRFJ	WAGB282	CG Yard, Curtis Bay, Baltimore,MD 21226
Obion		WLR65503	CG Base, Foot of Iron St, St Louis, MO 63111
Ojibwa	NRKM	WYTM97	1 Fuhrman Blvd, Buffalo,NY 14203
Osage	NGJS	WLR65505	P.O. Box 343, Swickley, PA 15143
Ouachita		WLR65501	P.O.Box 5007, East Chattanooga,TN 37406
Papaw	NRPZ	WLB308	196 Tradd, Charleston,SC 29401
Patoka		WLR75408	P.O. Box 468, Greenville,MS 38701
Pendant		WYTL65608	427 Commercial St, Boston,MA 02109
Plantree	NRPY	WLB307	FPO Seattle, WA 98799 (Juneau,AK)
Point Arena	NJKT	WPB82346	USNAVAMPHIB Base, West Annex,Little Creek, Norfolk,VA 23520
Point Baker	NIQK	WPB82342	P.O. Box 667, Port Aransas, TX 78373
Point Barnes	NLVA	WPB82371	900 Seaway Drive, Ft Pierce,FL 33450
Point Barrow	NUFN	WPB82348	Yerba Buena Island, San Francisco,CA 94130
Point Batan	NAKH	WPB82340	Point Pleasant,NJ 08742
Point Bennett	NAVH	WPB82351	P.O. Box 582, Port Townsend,WA 98368
Point Bonita	NSMF	WPB82347	Woods Hole,MA 02543
Point Bridge	NLDW	WPB82338	13871 W. Fiji Way, Venice,CA 90291
Point Brower	NMEX	WPB82372	P.O. Box 6478, Pt Loma Station, San Diego,CA 92106
Point Brown	NKFW	WPB82362	USNAVAMPHIB Base,West Annex,Little Creek, Norfolk,VA 23520
Point Camden	NKIT	WPB82373	P.O. Box 8, Terminal Island, San Pedro,CA 90731
Point Carrew	NNZL	WPB82374	see above
Point Charles	NJGJ	WPB82361	P.O.Box M, Cape Canaveral,FL 32920
Point Chico	NIOO	WPB82339	Yerba Buena Island, San Francisco 94130
Point Countless	NVOR	WPB82335	Port Angeles,WA 98362
Point Divide	NRJG	WPB82337	1911 Bayside Drive, Corona Del Mar,CA 92625
Point Doran	NLLX	WPB82375	609 14th Street, Everett,CA 98104
Point Estero	NZOM	WPB82344	Gulfport,MS 39501
Point Evans	NCCE	WPB82354	205 Marina Drive, Long Beach,CA 90803
Point Francis	NDCH	WPB82356	CG Group, Highlands, NJ 07732
Point Franklin	NYVC	WPB82350	Cape May,NJ 08204
Point Glass	NCNK	WPB82336	P.O. Box 76A, Gig Harbor,WA 98335
Point Hannon	NCNP	WPB82355	West Jonesport,Maine 04649
Point Harris	NKEQ	WPB82376	FPO San Francisco, CA 96601
Point Herron	NUEL	WPB82318	Bay Shore,NY 11706
Point Heyer	NVRC	WPB82369	Yerba Buena Island, San Francisco,CA 94130

Point Highland	NWMO	WPB82333	P.O.Box 430, Crisfield,MD 21817
Point Hobart	NSWA	WPB82377	1540 Harbor Drive North, Oceanside,CA 92054
Point Hope	NKJK	WPB82302	P.O. Box 458, Sabine,TX 77655
Point Huron	NECA	WPB82357	USNAVAMPHIB Base, West Annex, Little Creek, Norfolk,VA 23520
Point Jackson	NSGB	WPB82378	Woods Hole,MA 02543
Point Judith	NJIL	WPB82345	111 Harbor Way, Santa Barbara, CA 93109
Point Knoll	NTKD	WPB82367	Fort Trumbull, New London,CT 06320
Point Ledge	NDLK	WPB82324	P.O.Box 643,Fort Bragg,CA 95437
Point Lobos	NSDA	WPB82366	Panama City,FL 32401
Point Lookout	NELL	WPB82341	725 Front St, Morgan City,LA 70380
Point Martin	NRQJ	WPB82379	912 Water St, Writhtsville Beach,NC 28280
Point Monroe	NBRM	WPB82353	Rt #2, Freeport,TX 77541
Point Nowell	NLEZ	WPB82363	P.O. Box 1007 Port Isabel,TX 78578
Point Richmond	NWGM	WPB82370	P.O. Box 698, Anacortes,WA 98221
Point Roberts	NFDU	WPB82332	P.O. Box 385, Mayport,FL 32267
Point Sal	NBEN	WPB82352	P.O.Box 844, Grand Isle,LA 70358
Point Spencer	NXFN	WPB82349	4640 Urquhart St, New Orleans,LA 70117
Point Steele	NGYD	WPB82359	Oswego,NY 13126
Point Stuart	NFIJ	WPB82358	P.O. Box 6478, San Diego,CA 92106
Point Swift	NLBI	WPB82312	P.O.Box 3248, Clearwater,FL 33515
Point Thatcher	NMDS	WPB82314	P.O.Box 4097, Sarasota,FL 33578
Point Turner	NPRM	WPB82365	Goat Island Marina, Newport,RI 02840
Point Verde	NZZV	WPB82311	P.O. Box 98, Dauphin Island,AL 36528
Point Warde	NUIH	WPB82368	P.O. Box 2029, San Juan,PR 00903
Point Wells	NTDG	WPB82343	P.O. Box 820, Montauk,NY 11954
Point Whitehorn	NMEI	WPB82364	P.O.Box 416, St Thomas,VI 00801
Point Winslow	NHMV	WPB82360	Yerba Buena Island, San Francisco,CA 94130
Polar Star	NBTM	WAGB10	FPO Seattle,WA 98799
Primrose	NRZT	WLI316	USCG Yard, Curtis Bay, Baltimore,MD 21226
Rambler	NRPO	WLI298	CG Base, Bldg 101, MAIC, Mobile 36615
Rartitan	NRPS	WYTM93	Grand Haven,MI 49417
Red Beech	NJLE	WLM686	Governors Island,NY 10004
Red Birch	NGFH	WLM687	Curtis Bay, Baltimore,MD 21226
Red Cedar	NPDC	WLM688	4000 Coast Guard, Portsmouth,VA 23705
Red Oak	NPKF	WLM689	Glouchester,NJ 08030
Red Wood	NOTE	WLM685	150 Bank St, New London,CT 06320
Reliance	NJPJ	WTR615	Reserve Training Ctr, Yorktown,VA 23690
Resolute	NRLT	WMEC620	Government Island, Alameda,CA 94501
Rush	NLVS	WHEC723	FPO San Francisco,CA 96601 (San Francisco)
Sagebrush	NODR	WLB399	P.O. Box 52029, San Juan PR 00903
Salvia	NODS	WLB400	CG Base, Bldg 101, MAIC, Mobile, AL 36615
Sangamon	NPQP	WLR65506	P.O.Box 388, Peoria,IL 61651
Sauk	NRKS	WYTM99	Governors Island,NY 10004
Scioto		WLR65504	P.O. Box 350, Leavenworth,KS 66048
Sedge	NODU	WLB402	FPO Seattle,WA 98799 (Homer, AK)
Shackle		WYTL65609	259 High St, South Portland,Maine 04106
Sherman	NMMJ	WHEC720	Boston,MA 02109
Sledge	NSAD	WLIC75303	4000 Coast Guard, Portsmouth,VA 23704
Smilax	NRYN	WLI315	P.O.Box 1278, Brunswick,GA 31520
Sorrel	NRZI	WLB296	FPO Seattle,WA 98799 (Seward,Alaska)
Spar	NODV	WLB403	259 High St, South Portland,Maine 04106
Spencer	NROS	WHEC36	Governors Island,NY 10004
Staten Island	NSXN	WAGB278	FPO Seattle,WA 98779

Steadfast	NSTF	WMEC623	600 8th Ave., S.E., St Petersburg,FL 33701
Storis	NRUC	WMEC38	FPO Seattle,WA 98779 (Kodiak)
Sumac	NTLZ	WLR311	CG Base, Front of Iron St,St Louis, Mo 63111
Sundew	NODW	WLB404	P.O. Box 57, Charlevoix, MI 49720
Sweetbriar	NODX	WLB405	FPO Seattle,WA 98799
Sweetgum	NRQW	WLB309	P.O. Box 385, Mayport,FL 32267
Spike		WLIC75308	P.O. Box 385, Mayport, FL 32267
Swivel		WYTL65603	Rockland,Maine 04841
Tamaroca	NNGR	WMEC166	Governors Island,NY 10004
Tanger	NNGS	WTR855	Alameda,CA 94501
Tackle		WYTL65504	USCG Yard, Curtis Bay, Baltimore,MD 21226
Taney	NRDT	WHEC37	400 CG Blvd, Portsmouth,VA 23703
Towline		WYTL65605	1 Thames, Bristol, RI 02809
Tupelo	NRFU	WLB303	Astoria,OR 97146
Unimak	NBVG	WHEC379	State Pier, New Bedford, MA 02740
Valiant	NVAI	WHEC621	Galveston,TX 77550
Venturous	NVES	WMEC625	P.O. Box 8 Terminal Island Station,San Pedro,CA 90731
Verbena	NODF	WLI317	Fort Macon, NC 28512
Vise		WLIC75305	600 8th Ave.,SE, St Petersburg, FL 33701
Vigilant	NHIC	WMEC617	New Bedford,CT 02740
Vigorous	NQSP	WMEC627	USCG Academy, New London,CT 06320
Walnut	NRYZ	WLM252	San Diego,CA 90731
Westwind	NLKL	WAGB281	655 E. Erie, Milwaukee,WI 53202
Whitebush	NANL	WLM542	Astoria,OR 97146
White Heath	NAQE	WLB545	Boston,MA 02109
White Holly	NAOY	WLM543	4640 Urguhart St, New Orleans,LA 70117
White Lupine	NARO	WLM546	Rockland, Maine 04841
White Pine	NODE	WLM547	CG Base, Bldg 101, MAIC, Mobile, AL 36615
White Sage	NAPC	WLM544	Woods Hole,MA 02543
White Sumac	NAED	WLM540	St Petersburg,FL 33701
Woodrush	NODZ	WLB407	Duluth,MN 55802
Woodbine	NRPH	WLB289	Grand Haven,MI 49417
Wyaconda		WLR75403	P.O.Box 302, Dubuque,Iowa 52001
Yankton	NRKD	WYTM72	259 High Street, South Portland,Maine 04106
Yocona	NNHB	WMEC168	P.O. Box 836, Astoria,OR 97103
Zinnia	NRXC	WLI255	West End Blvd, New Orleans,LA 70124

The Coast Guard calls all of its ships "Cutters" whether they are tug boats or Icebreakers. Therefor it is important to be able to find some way to determine the type of ship you are listening to. After hearing a ship identify as "Coast Guard Cutter-------" look up the name in this list. Take note of the Hull Number (third column). The letter prefix of the hull number will tell you what type of ship you are listening to. Also, Cutters with a five digit hull number such as WLR75403 also tell you the lenth of the ship. The first two digits of the hull number (in 5 digit hull numbers only) are the length of the Cutter, ie WLR75403 is a 75 foot River Bouy Tender.

List of Cutter Prefix Codes:

WAK	Cargo Cutter	WHEC	High Endurance Cutter
WTR	Reserve Training Cutter	WMEC	Medium Endurance Cutter
WIX	Training Cutter	WAGB	Icebreaker
WLV	Lightship	WPB	Patrol Craft
WLR	River Bouy Tender	WYTM	Medium Harbor Tug
WLI	Inland Bouy Tender	WYTL	Small Harbor Tug
WLM	Coastal Bouy Tender	WAGO	Oceanographic Cutter
		WLIC	Inland Construction Tender
		WLB	Seagoing Bouy Tender

ADDITIONAL COAST GUARD CUTTER LISTINGS (No call signs available)

Cutter Name	Hull #	Address
Cape Upright		P.O. Box 13704, Savanah,GA 31406
Chinook	WYTM96	CG Yard, Curtis Bay, Baltimore,MD 21226
Chippewa	WLR75404	201 Coast Guard Lane, Owensboro,KY 42301
Chokeberry	WLI65304	Hatteras, NC 27943
Clamp	WLIC75306	Galveston, TX 77550
Cuyahoga	WIX157	USCG Training Center, Yorktown, VA 23690
Bridle	WYTL65604	CG Yard, Curtis Bay, Baltimore, MD 21226
Hatchet	WLIC75309	Galveston, TX 77550
Hawser	WYTL65610	Governors Island, NY 10004
Hudson	WLIC801	100 MacArthur Cswy, Miami Beach, FL 33139
Kennebec	WLIC802	CG Base, Ft Macon, Atlantic Beach, NC 28512
Line	WYTL65611	Governors Island, NY 10004
Mallet	WLIC75304	P.O. Box 1622, Corpus Christi, TX 78401
Mariposa	WLB397	Foot of Mt Elliot Av, Detroit, MI 48207
Messenger	WYTM85009	CG Yard, Curtis Bay, Baltimore, MD 21226
Munro	WHEC724	FPO Seattle, WA 98799 (Seattle, WA)
Pamlico		4640 Urquhart St, New Orleans, LA 70117
Polar Sea	WAGB11	FPO Seattle, WA 98799
Saginaw		CG Yard, Curtis Bay, Baltimore, MD 21226
Snohomish	WYTM98	Rockland, ME 04841
Tackle	WYTL65604	CG Yard, Curtis Bay, Baltimore, MD 21226
Towline	WYTL65605	1 Thames, Bristol, RI 02809
Wedge	WLIC75307	4640 Urquhart St, New Orleans, LA 70117
White Bush	WLM542	Astoria, OR 97103
Wire	WYTL65612	Governors Island, NY 10004

U.S. COAST GUARD 2 MHz FREQUENCY LIST

FREQ.-KHZ	MODE	USE
2056	RTTY	Alaska
2103.5	USB	Intra Coast Guard
2182	USB	International Distress
2330	RTTY	11th Dist
2376	RTTY	Alaska, paired 2056
2442	RTTY	East Coast COMSTA's
2604	USB	Missouri River
2610	RTTY	All Units,paired 2606
2638	USB	Cutters all Districts
2646	RTTY	General use, paired 2234
2659	USB	12th Dist-Primary
2662	USB	3rd Dist-Primary
2666	RTTY	7th & 17th Dist
2667	USB	Intra Coast Guard
2674	CW	1st Dist
2674	RTTY	1st Dist
2675	USB	5th & 11th Dist-Sec
2678	USB	7th,9th & 17th Dist
2682	RTTY	12th Dist
2683	USB	8th & 14th Dist-Pri
2686	USB	3rd & 12th Dist-Sec
2690	RTTY	5th & 17th Dist
2691	YSB	7th Dist-Sec
2694	USB	1st & 11th Dist-Pri
2698	RTTY	8th & 14th Dist
2699	USB	8th & 13th Dist
2702	USB	5th & 14th Dist-Pri
2703	RTTY	Atlantic COMSTA's paired with 2330
2704	RTTY	All Areas
2707	USB	1st & 13th Dist-Sec
2710	USB	11th Dist-Sec
2738	USB	All Areas (Except Gulf)
2748	USB	17th Dist-Sec

District List

1st	Boston, Ma
2nd	St Louis, Mo
3rd	New York, NY
5th	Portsmouth, VA
7th	Miami, FL
8th	New Orleans,LA
9th	Cleveland, OH
11th	Long Beach, CA
12th	San Francisco,CA
13th	Seattle,WA
14th	Honolulu, HI
17th	Juneau, Alaska

COMMUNICATIONS OF STATIONS LOCATED AT ANTARCTICA

Listening to Antarctica is not as hard as most people think. With a little careful tuning and a few hours of time, you can hear the worlds most remote frontier. Antarctic communications can be divided into two types, official and amateur.

The easiest station to hear in Antarctica is the U.S. Naval Support Facility Station at McMurdo Sound. Most Winter (in North America) evenings they can be heard acting as a NetControl Station for other Antarctic facilities. The most popular frequency for air traffic control is 8997 KHz. This can be heard best, after 0600 GMT. The frequency of 11552 KHz/USB is used to transfer weather information between U.S. Antarctic bases. On a good evening, you can hear all of the U.S. Stations. Try after 0130, and before 0400 GMT.

When transmitting on CW Antarctic Stations use their international call sign. When operating Voice, they use their Stations name. When operating with another base they use the sufix "Station" and when operating with aircraft or ships they use the sufix "Radio".

U.S. ANTARCTIC STATIONS FREQUENCY PLAN

Channel Number		
US-2	Harbor Common (McMurdo, Ships & Helicopter Control)	2716 KHz
US-3	Ship Tactical (Used by ships once under way) 2025	3237 KHz
US-4	Ships Conference (Long Range ship communications) 3319, 8295.6 and 12430.6 KHz	
US-5	Long Range Air/Ground Communications 8997 KHz Primary, 13251 Sec.	
US-6	Alternate Air/Ground Communications 4719.5, 5727.5 & 6835 KHz	
US-9	Air to Ship 3102 KHz	
US-13	Forcaster to Pilot 13251 KHz	
US-14	Antarctic Broadcasts FAX & RTTY 3319, 4872, 8090, 11004 & 17361.5 KHz	
US-15	Antarctic Calling & Working 3319, 6835, 8975.5 KHz	
US-16	Antarctic RTTY Working 3151, 7750, 9830, 10235 & 13545 KHz	
US-17	Antarctic Common (Field Party to Base) 4705, 7995, 11255 & 11552 KHz	
US-18	McMurdo to Christchurch (PTP) 7895, 9785, 10130, 11460, 13874, 14767.5, 16152, 15889, 17375, 20105, 21804, 22842.5, & 26875	
US-19	Christchurch to McMurdo (PTP) 7929.5, 9215, 9785, 11460, 11580, 14700, 14767.5, 16152, 17403, 21804, 21834 & 22842.5 KHz	
US-25	USARP (Mobile) McMurdo 27575 KHz	
MARS	McMurdo 13975.5	

Station Name & Location			Official Call	MARS Call	Amateur Call
McMurdo Station	77S53	166E37	NGD	NØICE	KC4USV
South Pole Station	90S00		NPX	NØNWB	KC4USN
Palmer Station	64S46	64W05	NHG	NØKMR	KC4USP
Siple Station	75S40	83W55	NQU	NØICF	KC4AAD
Williams Field			NZCM	NØNGQ	KC4USX
Byrd Surface Camp	80S01	119W32	NBY		KC4USB
Brockton Station	Closed		NBN		
Hallett Station	Closed		NIC		
Dome Charlie	74S40	123E50			

Two addresses are available for the Antarctic Stations. For McMurdo, Siple, Williams Field and Byrd, use FPO San Francisco 96610, all other stations use FPO New York, NY 09501.

MISC. US AMATEUR STATIONS

KC4USA	US Coast Guard Cutter Northwind via FPO Seattle 98799
KC4USE	US Coast Guard Cutter Naumee
KC4USI	US Coast Guard Cutter Staten Island
KC4USW	USNS Mirfak
KC4UST	USNS John R. Towle
KC4USZ	NMCB-71 South Pole Construction Camp
KC4USG	US Coast Guard Cutter Glacier via FPO San Francisco 96601
KC4AAA	South Pole Station
KC4AAB	R/V Hero via Soc. Importadora y Exportadora, W. Villafane 740, Buenos Aires, Argentina

KC4AAC Palmer Station
KC4AAD Siple Station
KC4AAE Vostok Station via FPO New York 09501

AUSTRALIAN ANTARCTIC STATIONS

Station	Official Call	Ham Call
Mawson Base	VLV	VKØCC/IN/MX
Casey Base	VNJ	VKØJV/PF
Davis Base	VLZ	VKØJO/JM
Moore Pyramid Base (Summers)	VLV3	
Mt Cresswell Base (Summers)		
MacQuarie Island	VJM	Multi
Wilkes Base (Now closed)	VLL	

Frequencies in use:
Station to Station: 4040, 5835, 6850, 7922.5, 9940, 12255, 14415 & 15845 KHz
Field Parties: 2720, 4040, 5400, 8110
Aircraft: 6610, 8938 & 3023.5
Additional: 7924, 12215 & 12255
VNM Melbourne to Antarctic Bases: 9941.5, 12256.5, 14416.5, 15846, 19256.5 and 17481.5 KHz

All coorespondence via: Antarctic Division
Department of Science
568 St Kilda Rd
Melborne, 3004, Australia

SOUTH AFRICAN ANTARCTIC STATIONS

SANAE BASE Call Sign:ZRP
%Secretary for TRansport
Private Bag, X193 PTA
Pretoria, South Africa

Amateur: ZS1ANT

Frequencies: 3737, 4040, 6274, 6780, 8264
9843, 11145, 12442, 13560, 14445, 14495,
16471m 16510, 17348, 19083 & 22085 KHz

Emergency Freq's: 2006, 3250, 3390
3567, 3800, 6780 & 7047

JAPANESE ANTARCTIC STATIONS

SYOWA BASE
%Director, National Institute of Polar Research
Kaga 1-9-10
Itabashi-ku, Tokyo, Japan

Official Call Sign: JGX Ham Call: 8J1RL
Frequencies: 2050, 2570, 3025, 3170, 3195,
4540, 4575, 5940, 5947, 7771, 8161, 8186,
8364, 11532.5, 11565, 14450, 14570, 14895,
18505, 18675, 20265, 20475 KHz

Aircraft: 3035, 4540, 7771, 5940 & 8186

NEW ZEALAND ANTARCTIC STATIONS

Scott Base
% Antarctic Division,DSIR
P O Box 2110
Christchurch, New Zealand

Official Call Sign: ZLQ
Frequencies: Channel #1 2773
#2 5400
#3 6708
#4 8997

ZLQ-5400
ZLQ5-5785
ZLQ6-7490
ZLQ7-10760
ZLQ8-14655
ZLQ9-19250
ZLQ24-11570
ZLQ25-10550
ZLQ26-10688
ZLQ27-14580
ZLQ29-9435

Vanda Station
% Same address

Official Call Sign: ZLEM
Used same frequencies

U.S.S.R. ANTARCTIC STATIONS

Station Name & Location	Official Call Sign	Amateur Call Sign	Frequencies-all CW/RTTY
Bellingshausen Base	UGE2		4106, 8102, 10140 & 13715
Mirnyj Base	UFE		7665, 7765, 9215 & 13385
Molodezhnaya Base	RUZU		8102, 10140 & 13385
Novolazerevskaya Base	UDY	4K1D	
Vostok Station 78S27 106E52		4K1C	
Leningradskaya Station		4K1G	
Russkaya Station		4K1H	

UNITED KINGDOM ANTARCTIC STATIONS

Argentine Island	ZHF44	9106 Khz
South Georgia	ZBH	9106
Port Stanley	ZHF88	8150, 9100, 12300
Halley Bay (Base Z)	VSD	3186, 7623, 9106, 12530

Aircraft Frequency: 4067 KHz

BELGIUM ANTARCTIC BASE

Roi Baudouin Base	ORU	7750-ORU27	12152-ORU32
		9272-ORU20	20975-ORU50
		10649-ORU30	22960-ORU42

FRENCH ANTARCTIC STATIONS

Dumond d'Urville (Terre Adelie) Official Call Sign: FJY3
%Adminsitration des Terres Antarctique Francaise
27 Eue Quadinut
Paris 7e, France

Frequencies: 7420, 9268, 9788, 10113, 11575, 11985, 14670, 14940, 16050, 17548, 17695, 20240, 21845, 23490, 23985, 24060 & 24460 KHz

POLISH ANTARCTIC STATIONS

Arctowski Station (No information available)

Amateur: HFØPOL

MISC.

US Navy Support Force	ZLK35-11461.5	ZLK42-11580
Weedons, Christchurch,	46-14700	32-14768
New Zealand	36-16153.5	28-17450
FPO San Francsico 96690	37-21805.5	34-9786.5

ANTARCTICA DISTRESS: 3023.5 KHz and 282.8 MHz

FREQ. KHz	STATION
3046	Halifax-Wx
3092	Lahr
3095	Edmonton Trenton
4704	Edmonton St Johns Trenton
4726	Lahr
4746	Lahr
5690	Lahr-Wx
5718	Edmonton Halifax St Johns Trenton
6693	Halifax
6705	Edmonton-Wx Lahr St Johns-Wx Trenton-Wx
6708	Shearwater
6716	Halifax Halifax Rescue St Johns
6746	Halifax-Wx
6753	Edmonton-Wx Lahr-Wx North Bay St Johns Trenton-Wx
8984	North Bay
8996	Lahr
9006	Lahr St Johns Trenton
9010	Halifax
11209	Edmonton St Johns Trenton
11233	Edmonton Lahr St Johns Trenton
11249	Halifax-Wx
11265	Lahr Trenton
11269	Edmonton
13231	Lahr-Wx Trenton
13254	Edmonton Halifax Trenton
13257	Edmonton Lahr Trenton
15031	Lahr
15035	Edmonton-Wx St Johns-Wx Trenton-Wx
15038	Edmonton St Johns
17995	Edmonton Trenton
18012	Edmonton Lahr St Johns Trenton
23250	Trenton

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Those stations designated with the letters "Wx" also transmit aviation weather per the schedule listed below:

Time After the Hour	Station
H+16	Lahr
H+20	Edmonton
H+30	Trenton
H+40	St Johns
H+50	Halifax

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The frequencies that are listed above are In-Flight frequencies used by

aircraft to communicate with the ground stations. At times you will also find the ground stations in contact with each other to coordinate the aircraft. Each Canadian Forces Station or Base identifies with its geographic location as the prefix, followed by the suffix "Military". The suffix "Rescue" is used to denote that the aircraft is on a rescue mission. Canadian Military aircraft identify with the prefix "CANFORCE" followed by their wing or tail number. Rescue aircraft use the prefix "Rescue" followed by their tail number.

The Naval Division of the Canadian Military Forces also operates with aircraft and ships on two major frequencies of 2660 KHz and 5703 KHz, both USB.

Below is a list of Canadian Forces Bases that can be heard in regular use.

"Edmonton" is located in Alberta and is assigned the Call Sign of VXA

"Halifax" is located in Nova Scotia and uses the Call Sign CHF.

"Lahr" is located in West Germany and uses the Call Sign of DHM95.

"St Johns" is located in New Brunswick and uses the Call Sign CJX.

"Trenton" is the main base and is located in Ontario and uses the call sign CHR.

In addition to the above call signs, from time to time tactical call signs are used both by ground stations and aircraft.

CANADIAN DEPARTMENT OF TRANSPORT MARINE OPERATOR STATIONS HIGH FREQUENCY (HF)

CALL SIGN	LOCATION	FREQ-KHZ		
VAF	Alert Bay, NWT	1630	2054	2458
VAX	Canso, NS	2514	2582	2598
VAY	Cape Hope Adv,Qu	2582		
VDQ	Cardinal, Ont	2598		
VOK	Cartwright, Lab	2582	2598	
VCA	Charlottetown, PEI		2530	2582
VAP	Churchill, Man	2582	4409.4	
VOO	Comfort Cove	2538	2582	2598
VFJ	Coral Harbor, NWT		2582	4409.4
VOJ	Corner Brook, NFLD		2558	
VCG	Fox River, Qu	2514	2582	2598
VFF	Frosisher Bay,NWT		2582	4409
VFZ	Goose Bay, Lab	2582	2716	
VCN	Grindstone Isld	2514	2582	2598
VCS	Halifax, NS	2530	2582	2598
VOQ	Hopedale, NFLD	2598		
VAL	Inoucdjouac	2582		
VBH	Kingston, Ont.	2598		
VCF	Mont Joli, Qu	2514	2582	
VFN	Montreal, Qu	2514	2582	

CALL SIGN	LOCATION	FREQ-KHZ		
VBF	Pt Burwell, Ont	2514	2598	
VAJ	Poste de la Beleine	2582		
VCC	Quebec, Qu	2514	2582	
VFR	Resolute, NWT	2582	4409	8770.4
VAW	Resolution Isld,NWT		2582	4409.4
VCD	Riviere-du-loup,Qu		2514	2598
VBE	Sarnia, Ont	2514	2598	
VBB	Sault St Marie	2598	4409.4	
VCO	Sydney, NS	2530	2582	2598
VCM	S. Anthony	2538	2582	2598
VAR	S. John, NB	2582	2598	
VON	S. Johns,NFLD	2514	2582	2598
VCP	S. Lawrence,NFLD	2514	2538	
		2582	2598	
VCK	Sept-Isles,Qu	2514	2582	
VOJ	Stephenville, NFLD		2582	2598
VBA	Thunder Bay, Ont	2514	2598	
VBG	Toronto, Ont	2514	2598	
VBK	Trois Rivers,Qu	2514	2582	
VBC	Wiarton, Ont	2582	2598	4409.4
VAU	Yarmouth, NS	2582	2598	

BRITISH IN-FLIGHT FREQUENCIES

FREQ. KHz	STATION & LOCATION
3095	RAF Salah, Oman
3116	RAF Gan Island, Maldives
3885	RN Culdrose, England
4615	RAF Gibraltar
4722	RAF West Drayton Volmet
4742	RAF Uphaven, England
	RAF Octavia
	RAF Belize
5450	RN Yeouilla
5695.5	RAF Salah, Oman
6562	Raf Seychelles
6686	RAF Pitreave, Scotland
	RAF Tynemouth
6705	RN Prestwick, Scotland
6707	RAF Combin, Cyprus
6708	RN Yeovilton
6825	RN Culdrose, England
8967	RAF Gan Island, Maldives
	RAF Seychelles
8975	RAF
8983	RAF Malta
9032	RAF Upavon, England
	RAF Bermuda
	RAF Luca, Malta
	RAF Pitreave, Scotland
	RAF Gibraltar
9043	RAF Pitreave, Scotland
11200	RAF West Drayton Volmet
11234.5	RAF Rainbow
	RAF Bermuda
	RAF Upavon, England
	RAF Akrotiri, Cyprus
	RAF Gan Island, Maldives
	RAF Luqa, Malta
	RAF Belize
13205	RAF Seychelles
13216	RAF Gan Island, Maldives
13234	RAF
20511	RAF Gibraltar
21886	RAF Seychelles

RAF- Royal Air Force
RN - Royal Navy Aircraft

NEW ZEALAND & AUSTRALIAN IN-FLIGHT FREQUENCIES

FREQ. KHz	STATION & LOCATION
3032	RAAF Sydney
3130	RAAF
4703	RNZAF Auckland
	RNZAF Ohakea
	RNZAF Wigram
5688	RAAF Sydney
	RAAF Darwin
	RAAF Pearce
5695	RAAF Butterworth, Malaysia
	RAAF Tactical Use
6699.5	RAAF
6720	RAAF
6723	RNZAF Auckland
	RNZAF Ohakea
	RNZAF Wigram
8971	RAAF
8975	RAAF Channel Alfa 10
8992	RNZAF Auckland
	RNZAF Ohakea
	RNZAF Wigram
11202	RAAF
11247	RAAF Sydney
	RNZAF Auckland
	RNZAF Ohakea
	RNZAF Wigram
13205	RAAF
13245	RAAF
17983	RAAF

New Zealand Military Aircraft use the Prefix "Kiwi" and "Adelphi"

SOUTH AFRICAN MILITARY IN-FLIGHT

FREQ-KHz	STATION & LOCATION
3116	Ground Use
3932	
4703	Search & Rescue
5680	Tower
5695	Alternate, Internal
6687	
8975	Primary, Internal
8992	
11237	Primary, Overseas
15056	
17993	Primary, Overseas
21860	
23287	

FREQ. KHz	SPACECRAFT	MODE
8035	Soyuz 1	Voice-AM
9019	Vostok 1	Voice-AM
15008	Cosmos 557	CW-PCM
	Soyuz 1,2,5 & 19	
	Salyut 1	CW-PDM
	Salyut 4	Voice-AM
15009	Salyut 6	
17365	Voskhood 1 & 2	
18035	Voskhood 1 & 2	
18060	Soyuz 19 & 20	CW-Telemetry
	Salyut 4	Voice
19150	Cosmos 151, 251, 264	
	Cosmos 774	CW-PCM
		Tck Bcn "TK"
19365	Cosmos 111 & 198	
19430	Electron 1	
19540	Electron 2	
19542	Cosmos 367	
19545	Proton 2 & 3	
19735	Cosmos 102	
19775	Cosmos 61-63	Beacons
19800	Cosmos 40	
19802	Cosmos 54-56	Beacons
19894	Cosmos 110	
19895	Polyot 2	
19910	Proton 1 & 4	
19943	Electron 3 & 4	
19444	Salyut 3 & 5	PDM-FSK
19945	Polyot 1	
19954	Cosmos 929	PDM-FSK
	Electron 3 & 4	
19989	Cosmos 364	PDM-FSK
19990	Cosmos 131 & 177	
19993	Lunik 1 & 3	Probe
19994	Cosmos 7,9,47,112, 114,127,157,& 162	
	Cosmos 356	PDM-FSK
	Cosmos 759	Rcvy Bcn "TG"
	Voskhod 1	
19995	Cosmos (Multi)	
	Lunik 1	
	Sputnik 4-6 & 9-10	
	Vostok 1-3 & 6	Tck Bcn
19996	Cosmos (Multi)	
	Voskhod 2	
19997	Cosmos 57	
	Lunik 1 & 3	Final Stage
19998	Vostok 5	Tck Bcn
20003	Lunik 1	
20004.8	Cosmos 8	

FREQ KHz	SPACECRAFT	MODE
20004.87	Cosmos 31	
20005	Cosmos 2,17,53, 93 & 95	
	Cosmos 356	Xmit 4.5 sec
	Electron 1,3 & 4	
	Intercosmos 2	
	Sputnik 1-3	
20005.04	Cosmos 8	Beacon
20006	Cosmos 1	
	Vostok 2-6	Voice
20007	Soyuz 25	CW-PDM
20008	Cosmos 5,140,186, 496,573 & 638	
	Cosmos 772	CW-PDM
	Soyuz 1,2,4,5	
	Soyuz 11	CW-PDM
	Soyuz 16 & 18	
	Soyuz 19	Voice-AM
	Soyuz 20	CW
	Salyut 4	
20034	Cosmos 38	
20035	Cosmos 54-56	Beacon
20084	Cosmos 39	
	Cosmos 61-63	Beacon
	Cosmos 71	
30007	Electron 4	
30007.3	Cosmos 31	
30007.5	Cosmos 17,93 & 95	
	Cosmos 356	Unkeyed
	Intercosmos 2	
	Electron 1	
39986	Lunik 1 & 3	Probe
40002	Sputnik 1 & 2	
40008	Sputnik 3	
66000	Sputnik 3	
89102	Cosmos 40	
90020	Cosmos 19	
90021.6	Cosmos 11	
90021.91	Cosmos 31	
90022	Cosmos 25 & 53	
	Electron 4	
90022.5	Cosmos 2,17,93,95 & 356	
	Electron 1 & 2	
90022.68	Cosmos 8	Beacon
90023	Cosmos 44	
90023.3	Cosmos 6	
90027	Cosmos 1	
90156	Cosmos 38	
90158	Cosmos 54-56	Beacon
90377	Cosmos 61-63	Beacon
90378	Cosmos 39	

MHz FREQ	SPACECRAFT	MODE
121.75	Soyuz 14 & 19	Voice
130.167	Ground Ctl Uplink	Voice-FM
137.15	Meteor 24-27	AM
137.30	Meteor 23	WX-APT
137.62	Meteor 10	
142.417	Salyut	Voice-FM
142.40	Salyut 3	
142.60	Soyuz 19	Voice-FM
143.144	Soyuz	Voice-FM
143.625	Vostok 1-6	Voice-FM
	Voskhod 1-2	
	Salyut 3	Voice-FM
166.00	Soyuz 20	Telemetry
	Cosmos 929	Telemetry
183.538	Luna 9	
183.60	Lunik 1-3	FM Tckg
	Mars 1	
192.04	Soyuz 19	Telemetry
461.50	Cosmos 144	
	Meteor	APT
463.00	Soyuz 19	FM TV
464.0	Meteor	APT
466.50	Cosmos 184	
468.50	Cosmos	
	Meteor	APT
919.76	Soyuz 19	PM Cmd Sys
922.75	Cosmos 496,557 & 613	
	Salyut 4	
	Soyuz 19	
922.76	Mars 1	
922.763	Venera 5-6	
922.80	Venus 1	
925.24	Salyut	
926.06	Salyut 4	Telemetry
928.40	Mars 2-7	
	Prognoz	
928.429	Venera 7	
2802.0	Salyut 6	

Information contained herein was obtained from the ITU and from Official News Releases from TASS and from Radio Moscow

PEOPLES REPUBLIC OF CHINA SECTION

FREQ KHz	SPACECRAFT	MODE
19150	China 2	Note 1
19989	China 2	FSK Bcn
19995	China 2	Note 2
20009	China 1	Note 3
	China 2	
MHz		
180.0	China 4-7	Telemetry
393.0	China 4-7	Telemetry
397.0	China 4-7	Telemetry
480.0	China 4-7	Telemetry

NOTES

1. Morse Code binary transmissions
2. Pulse Data Modulation (PDM) 5 second telemetry of 16 channels. 4 of the 16 channels are calibration levels of 0 or 100%
3. Eight tone FSK. The Chinese National Anthem which was 40 seconds, telemetering which was 10 seconds and 10 seconds of silence (60 second run)

TERMS

Vostok, Voskoood and Salyut are all manned spacecraft, in order of design stage. The Salyut is an orbiting space station. Meteor Satellites are Weather Information Satellites. The Cosmos satellites are a mixture of Military and Civilian uses. The Luna and Lunik were moon probes, while the Venus and Venera craft were probes sent to Venus.

Although most of these frequencies are not in current use, the Russians have a habbit of re-using frequencies. Thus it may pay to monitor old channels. In the past, TASS and Radio Moscow have encouraged people to listen into their space transmissions.

FEDERAL COMMUNICATIONS COMMISSION-FCC

To link its monitor stations, the FCC maintains a shortwave network for use in case of emergency. All transmissions are by RTTY or CW.

Frequency:		
	2110	10902
	2295	13830
	4483	13942.5
	5133	13990
	5372.5	13992
	7603.5	18050
	7790	19230
	10655	22964
		23035

Monitoring Stations

KAA60	Grand Isle, NB
KCA35	Belfast, Maine
KCA38	Canandaigua,NY
KCA39	Ambrose,TX
KGA91	Laurel,MD
KGA93	Washington,DC HQ
KIA84	Powder Springs,GA
KIA85	Ft Lauderdale,FL
KKA59	Douglas,AZ
KKA60	Kingsville, TX
KMB26	Santa Ana,CA (Closed)
KMB27	Livermore,CA
KOA55	Spokane,WA (Closed)
KOA56	Marietta,WA
KQA62	Aligan,MI
KQG56	Chillicothe,OH
KUN70	Waipau,HI
KUN75	Imperial Beach,CA
KWC41	Anchorage,Alaska
WWQ20	Isabella, Puerto Rico

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DEPARTMENT OF JUSTICE-FBI/DEA

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The Justice Department Maintains an HF shortwave back-up network to facilitate communications in case of landline failure. Two primary users are the Federal Bureau of Investigation and the Drug Enforcement Administration.

Frequency USB/KHz	Numeric Identifier	Channel Name	User
3168.9			DEA
3269			DEA
4617.5	52		FBI
4666			DEA
4777			DEA
4790			DEA
4992.5	60		FBI
5060	26		FBI
5390			FBI
5422.5			DEA
5912.5	53		FBI
6775			DEA
6800			FBI
6954	51		FBI
7890			DEA
7905	27		FBI
8070			DEA
9095			DEA
9185	29		FBI
9240	31		FBI
9313	36		FBI
10500	32		FBI
10550			DEA
10915	33		FBI
11075.9	49		DEA/FBI
11490	35		FBI
13660	37		FBI
14495	39		FBI
14533.5	40		FBI
14660	38		FBI
14695			DEA
15955	41		FBI
16376	42		FBI
17405	44		FBI
17602.5	56		FBI
18172.5	45		FBI
18666	55	Hotel	DEA/FBI
19132.5	54		FBI
23675	47		FBI
23875	48		FBI
23403			DEA/RCMP

Channels Echo and Golf are in use by the DEA and are below Channel Hotel.

ATLAS is the identifier for the base station used by DEA/Customs in Washington, D.C.
EPIC is the El Paso Intelligence Center
SHIPS use a two word call sign
AIRCRAFT use a signle word call followed by a numeric symbol

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IMMIGRATION & NATURALIZATION SERVICE

BOARDER PATROL

The following are frequencies assigned

4615 KHz	9434
5910	9435
5912	14577.5
7527	14583.5
9433.5	14585

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U.S. DEPARTMENT OF STATE COMMUNICATIONS
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The Department of State Headquarters uses the general call sign KKN50 for all outgoing communications which are over the shortwave bands. Both CW and RTTY mode are being used at this time. Below is a list of headquarters communications channels.

Call Sign	Frequency-KHz
KKN32	6924.5
KKN43	7470
KKN41	10470
	10635
KKN42	11095
KKN43	12022.5
	12111.5
	13646
	14880
KKN35	15492.5
KKN36	15540
	16355
KKN39	17390
	18467
KGA69	18525
KKN47	18972
KGA93	19230
KKN48	20365
	20720
KGA61	23442.5
KKN51	23862.5
KKN49	23975
KKN52	23982.5
	26760

Althrough the call signs listed above are assigned to a specific frequency, most times these call signs are not used, and the general call sign KKN50 is used.

To communicate with Embassies outside the U.S. the Department of State maintains back-up shortwave capability at several U.S. EMBASSY sites around the world. Below is a list of those known. Communications is very rare and is either on CW or RTTY.

MONROVIA, LIBERIA
Call Sign: KKN44

4886	7830	11995	18043
5110	11434	15917	18348
7635	11635	16157.5	20353

MONROVIA/KKN44 continued

20929	20950	21300

NICOSIA, CYPRUS
Call Sign: KWS78

3186	5427	10255	18400
3822	7434	10310	18459.5
3830	7620	12268.5	18480
4910	7640	14359.5	
5270.5	7653	16149.5	

LA PAZ, BOLIVIA
Call Sign: KLA24 & KWR86

5270	8035
6924.5	14945
7517	20123

TEHRAN, IRAN
Call Sign: KWK50

7474	10790
7555	15957
7645	

LONDON, ENGLAND? or BONN, FDR
Call Sign: KRH50

3310	7724	10770
4589	7727	16149.9
4625	7865	16349
5426	10627	16457.5
7520	10679.5	20568.5

UNIDENTIFIED LOCATION IN FAR EAST
Call Sign: KWN90

4048	10461.9	13700
5822.5	10900	14782
6866.5	12210	16623
7662	13210	17552
9224	13485.1	

UNIDENTIFIED LOCATION
Call Sign: KWN90

14360.5

EMBASSY COMMUNICATIONS

Foreign Embassies located in Washington, D.C. sometimes use shortwave radio to transmit messages either by CW or RTTY back to their home country. Below is a list of those foreign governments who are licensed by the United States to operate a radio transmitter from their Embassy. However, since a foreign Embassy is technically not controlled by the U.S. laws, many foreign governments operate without a U.S. license.

POLAND Call Sign: KNY20	15804	19458			
YUGOSLAVIA Call Sign: KNY21	13377.5	14875	15704	18430	
CZECHOSLOVAKIA Call Sign: KNY23	7719	13377.5 18430	14649 19458	15704	15804
WEST GERMANY (FDR) Call Sign: KNY24	12205	15542	19014.5	21773	
ROUMANIA Call Sign: KNY25	9040.5	11090	16065	16392	
HUNGARY Call Sign: KNY26	9041.5	10642.5	13379	16392	20011
SWITZERLAND Call Sign: KNY27	10642.5	13605	18250	22960	
ALGERIA Call Sign: KNY28	10100.5	14989	18306.6		
GREAT BRITAIN Call Sign: KNY29	11106	14353.5	18808		
SWEDEN Call Sign: KNY34	14353				
GERMAN DEMOCRATIC REP. Call Sign: KNY37	5793.5	6929.5	11448		

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INTERPOL
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INTERPOL is the International Criminal Police Organization. It maintains a communications network 24 hours a day, 365 days a year. It operates over satellite, telephone lines and on shortwave (H.F.).

The sole purpose of INTERPOL is to serve as an information clearing house for the worlds Police Departments.

Started in 1923 when the European nations opened an information swapping center in Austria, it has progressed and now has a membership of most of the Nations throughout the world.

INTERPOL has a very small staff at its headquarters just outside Paris, France. Each member Nation maintains a liaison office to communicate with headquarters. These liaison offices are called "National Central Bureaus". For example, in England, the National Central Bureau is manned by Scotland Yard. Here in America, the Treasury Department runs the National Central Bureau. The sole purpose of the Bureau is to trade information with headquarters and other National Central Bureaus. Most of INTERPOL's activities at this time deal with Drug Enforcement. INTERPOL will not help countries seeking information where the crime involved is spying, political crimes, race problems or religous disputes.

The majority of shortwave radio traffic is either CW or RTTY. None is voice. RTTY uses 170hz shift with 50 bauds.

INTERPOL SHORTWAVE (H,F.) FREQUENCY LISTINGS:

KHz	KHz	KHz	KHz	KHz
2593	5208	8045	13820	19130
2840	5305.5	9105	14607.5(#3)	19360
3593	5895	9200	14707 (#2)	19405
3705	6792	9285 (#2)	14817.5	21785
3714	6905	9821 (#1)	15502.5	21807.5
4444	7401 (#1)	10295	15592	24110
4632.5	7532	10390 (#3)	15684	27845
4837.5	7832	11538	15738	
4855.5	7906	13520	18190	
5104	8038	13747	18380 (#3)	

NOTES
(#1) Limited Use
(#2) Asia Only
(#3) Primary Use

ALPHABETIC CALL SIGN LIST-NATIONAL CENTRAL BUREAUS

Call Sign	Station-Bureau
AVD204	Ranchi, Argentina
AYA26-29	Buenos Aires,Arg.
AYA47-49	Buenos Aires,Arg.
CNT	Rabat, Morocco
CSJ20-28	Lisbon, Portugal
DHA33	Wiesbaden,FDR
DUN356	Manila, Phil.
EEQ	Madrid, Spain
EEQ20	Las Palmas, Canary Isld
EEQ21	Santa Cruz, Canary Isld
EP5X	Tehran, Iran
HEP27-28	Walikon, Switzerland
HEP35	same
HEP39	same
HEP46	same
HEP52	same
HEP57	same
HEP67	Walikon, Switzerland
HEP75	same
HEP81	same
HEP83	same
HEP85	same
HEP87-88	same
HEP92-93	same
HMA22	Seoul, Korea
HSQ	Bangkok, Thailand
FSB	Headquarters-Interpol
FSB24	same
FSB51-75	same
GMP	West Wickam, Englanf
IUV81	Rome, Italy
JPA21	Tokyo, Japan
JPA25-27	same
JPA51	Komaki, Japan

Call Sign	Station-Bureau
JPA55-58	Komaki, Japan
JPA61-62	same
LJP20	Oslo, Norway
LJP22	same
LJP24	same
LJP26-27	same
LJP29	same
LJP33-34	same
LXF50	Luxembourg
LZH7	Sofia, Bulgaria
OAV84-87	Lima, Peru
ODW21-23	Beyrouth, Lebanon
OEQ20-28	Wien, Austria
OGX	Helsinki, Finland
ONA20	Brussels, Belgium
OWS	Copenhagen, Denmark
OWS3-4	same
PDB2	Utrecht, Holland
PPC55	Rio de Janeiro,Brazil
SHK	Stockholm, Sweden
SHX	Stockholm, Sweden
SUA81	Cairo, Egypt
SXP	Athens, Greece
TCC2	Ankara, Turkey
TTR103	N'Djemena, Chad
TTR148	same
TUW	Abidjan, Ivory Coast
VRD	Hong Kong
XJD48	Ottawa, Canada
XJE57	Almonte, Canada
YO99	Bucharest, Romania
YOG9	same
YVZ32	Caracas, Venezuela
3VA	Tunis, Tunesia
4NX7-8	Belgrade, Yugoslavia
4NX15	same
4NX25	same
4XP40-41	Tel Aviv, Israel
4XP43	same
4XP63	Jerssalem, Israel
4XP64	Tel Aviv, Israel
4XP66	same
5BP2	Nicosia, Cyprus
5BP7	same
5OP25	Lagos, Nigeria
5TP2	Nouakchott, Mauritania
5TP25	same
5TP74	same
5YG	Nairobi, Kenya
7RA20	Algiers, Algeria
8UF75	New Delhi, India
9TK20-25	Kinshasa, Zaire
HK3M	Bogota, Columbia
HK3TI	same

KHz	User
5140	Police
5195	Police
7480	Police
7805	Police
7935	Police

UNITED STATES SHORTWAVE (H.F.) FREQUENCIES

Below is a list of shortwave frequencies which the FCC still has assigned to some licensee's. However it is believed that no active stations are in use at this time, on most allocations.

KHz	Users
530	Travelers Info Service
1610	Travelers Info Service
1614	Petroleum Mfg & Exploration
1618	Police
1626	Police
1628	Petroleum Mfg & Exploration
1630	Fire
1634	Police
1642	Police
1650	Police
1652	Petroleum Mfg & Motion Picture
1658	Police
1666	Police
1674	Police
1676	Petroleum Mfg & Forest Products
1682	Police
1690	Police
1698	Police
1700	Petroleum Mfg & Forest Products
1706	Police
1714	Police
1722	Police
1730	Police
2212	Forestry
2226	Forestry
2292	Industrial Mfg
2326	Police
2366	Police
2382	Police
2390	Police
2398	Industrial Mfg
2406	Police
2414	Police
2422	Police
2430	Police
2442	Police
2450	Police
2458	Police
2466	Police
2474	Police
2482	Police
2490	Police
2726	Local Government
2804	Police
2808	Police
2812	Police
3201	Special Emergency Use
4637.5	Industrial Mfg

Continued to the left

VOLMET-AVIATION WEATHER FORCASTING STATIONS-SHORTWAVE

PACIFIC VOLMET BROADCASTS Frequencies: 2980, 5519, 8903 & 13344 KHz

H+05 H+35	H+10 H+40	H+15 H+45	H+20 H+50	H+25 H+55
OAKLAND RADIO	TOKYO RADIO	HONG KONG RADIO	HONOLULU RADIO	ANCHORAGE RADIO
San Francisco	Tokyo Int'l	Cheung Chau	Wake Island	Fairbanks
Los Angeles	Misawa	Naha	Guam	Cold Bay
Seattle	Nagoya	Taipei Int'l	Kahului	King Salmon
Portland	Osaka Int'l	Kao Hsiung	Wake Island	Shemya
Ontario	Fukupka	Manila Int'l	Kahului	Vancouver
Los Angeles	Seoul	Macao	Hilo	Anchorage
San Francisco	Tokyo	Hong Kong Int'l		Cold Bay
Seattle		Not on 2980KHz		

ATLANTIC VOLMET BROADCASTS Frequencies: 3001, 5652, 8868, 13272 KHz

H+00 H+30	H+20 H+50
NEW YORK RADIO	GANDER AERADIO

NORTH AFRICA VOLMET BROADCASTS Frequencies: 6575, 8896, & 11279 KHz

H+00 H+30	H+05 H+35	H+15 H+45	H+20 H+50	H+25 H+55
ALGER RADIO	KANO RADIO	DAKAR VOLMET	DAKAR VOLMET	KHARTOUM RADIO
Alger	Kano	Dakar	Niamey	Khartoum
Annaba	Calabar	Abidjan	Ouagadougou	Port Sudan
Oran	Lagos	Nouakchott	Bamako	Aden
Tunis	Accra	Nouadhibou	Monrovia	Addis Ababa
Tripoli	Contonou	Sal Island	Freetown	Asmara
Benghazi	Lome	Conakry		Djibouti

SOUTHERN AFRICA VOLMET BROADCASTS Frequencies: 3495, 6617, 10073, & 17909

H+00 H+30	H+05 H+35	H+10 H+40	H+15 H+45	H+20 H+50	H+25 H+55
JOHANNESBURG	NAIROBI	NAIROBI	BRAZZAVILLE	BRAZZAVILLE	TANANARIVE
Johannesburg	Lusaka	Nairobi	Brazzaville	Libreville	Tananarive
Maputo	Ndola	Entebbe	Douala	Port-Gentil	Majunga
Durban	Kigali	Dar-es-Slm	Yaounde	Pointe-Noire	Tamatave
Salisbury	Bujumbura	Mombasa	Bangui	Kinshasa	Moroni
Livingstone	Mogadiscio	Kilimanjaro	San Tome	Lubumbashi	St Denis
Bulawayo			Bata	Luanda	Mauritius
			N'Djamena		Nosy-Be

ASIA VOLMET BROADCASTS Frequencies: 3432, 6680, & 10017 KHz

H+00 H+30	H+05 H+35	H+10/+40	H+15/+45	H+20 H+50	H+25/+55
SYDNEY RADIO	CALCUTTA RADIO	BANGKOK	KARACHI	SINGAPORE RADIO	BOMBAY
Sydney	Calcutta	Bangkok	Karachi	Singapore	Bombay
Brisbane	Gaya	Rangoon	Nawabshah	Kuala Lumpur	Ahmadabad
Darwin	Delhi	Saigon	Jiwani	Kota Kinabalu	Calcutta
Adelaide		Bangkok		Penang	

EUROPE VOLMET BROADCASTS Frequencies: 2980, 5575, & 11391 KHz

H+05 H+35	H+15 H+45
BEN GURION RADIO-4XL	PRAGUE RADIO-OKL
Ben Gurion	Prague
Ramat David	Bratislava
Elat	Brno
Athens	Wien
Ankara	Munchen
Istambul	Frankfurt Main
Tel Aviv	Berlin
	Warsaw
	Moscow
	Budapest

MIDDLE EAST VOLMET BROADCASTS Frequencies: 3001, 5561, & 8819 KHz

H+00 H+30	H+05 H+35	H+10 H+40	H+15 H+45	H+20 H+50	H+25 H+55
BAGHDAD RADIO	TEHRAN RADIO	BAHRAIN RADIO	BERUIT RADIO	CAIRO RADIO	YESILKOY
Baghrad	Tehran	Bahrain	Beruit	Cairo	Istambul
Abadan	Abadan	Dhahran	Nicosia	Damascus	Ankara
Basrah	Tehran	Kuwait	Cairo	Beruit	Athrns
		does not use	Amman	Jeddah	
		8819 instead	Jehhah	Luxor	
		uses 8828.5	Athens	Cairo	

SHANNON AERADIO: 00-25 and 30-55 Forcasts for Shannon, Madrid, Prestwick London-Heathrow, Amsterdam, Oslo, Copenhagen, Athens and Paris.

DAY	NIGHT
5533	2889
8833	5533
13312	8833

Night is 2200-1000 GMT April to October and is 1800-1200 GMT November to March

OTHER VOLMET BROADCAST FACILITIES:

ASUNCION AERADIO, PARAGUAY: H+05 on 8905 KHz

CARRASCO AERADIO, MONTEVIDEO, URUGUAY: H+10 on 5544.5 KHz (0700-2200GMT)

COMANDORO RIVADAVIA AERADIO, ARGENTINA: H+30 on 4668 and 8938 KHz

CORDOBA AERADIO, ARGENTINA: H+20 on 5498 and 8952 KHz

ERIZA AERADIO, BUENOS AIRES, ARGENTINA: H+00 & H+15 on 2980, 5477 and 11319 KHz

RESISTENCIA AERADIO, ARGENTINA: H+20 on 4668 KHz

TEGUCIGALPA AERADIO, HONDURAS: H+50 on 4710 KHz (1200-2400 GMT)

LAS PALMES, CANARY ISLANDS: H+10 and H+20 as well as H+40 and H+50 on 6575, 8896 and 11279 KHz

EAST BERLIN RADIO, E. GERMANY (INTERFLUG VOLMET) H+15 and H+45 on 4737.5, 8993, and 13234.5 KHz

MUNSTER RADIO (DHM50), WRST GERMANY H+10 on 3925, 5691 and 11266 KHz from 0700-1600 GMT

U.S.S.R. AERONAUTICAL COMMUNICATIONS FOR MILITARY & CIVIL AIRCRAFT & VOLMET STATIONS

AERONAUTICAL COMMUNICATIONS CHANNELS

FREQ. KHZ	MODE	USER
6710	Voice	Moscow Kupavna Aero (RFNV) & Kirov Control
6748	Cw	Commercial Aeroflot Flights
8842	Cw	Commercial Aeroflot Flights
8965	Voice	Commercial Aeroflot & Cubana Flights, Boyeros, Cuba
10025	Cw	Moscow Aero
11312	Cw	Commercial Aeroflot Flights
11348	Cw	Commercial Aeroflot Flights
11391	Cw	Commercial Aeroflot Flights
13220	Voice	Air Traffic Control, Military & Civilian Flights
13205	Voice	Commercial Aeroflot & Cubana Flights, Boyeros, Cuba

VOLMET STATIONS BROADCASTING WEATHER INFORMATION

H+00-05/H+30-35	H+05-10/H+35-40	H+10-15/H+40-45	H+24
KHABAROVSK	TASHKENT	NOVOSIBIRSK	MOSKVA
Leningrad	Tashkent	Novisbirsk	Moskva/Sheremetyevo
Khabarovsk	Samarkand	Moskva/Sheremetyevo	Moskva/Vnukovo
Irkutsk	Alma-Ata	Moskva/Vnukovo	Leningrad
Novosibirsk	Moskva/Vnukovo	Khabarivsk	Kiev
Moskva/Sheremetyevo	Leningrad	Using:	Warsaw
Moskva/Vnukovo	Using:	6638 KHz	Helsinki
Leningrad	6610 KHz	11192 KHz	Using:
Using:	11279 KHz		135.1 MHz
6610 KHz	8917 KHz		
11279 KHz			

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LONG DISTANCE OPERATIONAL CONTROL (LDOC) AIRCRAFT RADIO FREQUENCIES & STATIONS

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Long Distance Operational Control or LDOC for short, is used by the airlines to talk directly with their aircraft. Company problems are often the topic of discussion. On occasion weather and flight information is also talked about. Some airlines operate their own base station, while others use the services of a private corporation such as ARINC (Aeronautical Radio, Inc.).

AIRLINE AND OR OPERATOR	FREQUENCIES: KHz/USB					
AIR INDIA, Bombay	6526	10093	13356			
JORDANIAN AIRLINES, Aman (ALIA Base)	13255					
AVIANCA AIRLINES, Madrid	11207	13218				
PAN AM, Beyrouth	3481	6526	10093	17965		
SWISSAIR, Berne (Berne Radio)	2959	4670	6526	6534	8963	10089
	13266	15046	18023	21890	20156	23285
MIDDLE EAST AIRLINES, Beyrouth (Cedar Base)	6526	10093	13356			
DRAGON AIRLINES, Hong Kong	3481	5610	6526	10093	17941	21996
EL AL AIRLINES, Tel Aviv	2938	5589	6677	8837	8930	11318
	13304	17936	17946	17958	21880	21886
SAS AIRLINES (Enkoping Radio) Sweden	4690	8972	11222	15021	17982	
GULFAIR, Bahrain (Falcon)	3418	6526	10093	13356	17941	21886
HAPAG LLOYD, Hannover	13356					
INTERFULG, DDR	8984	17973				
HOUSTON ARNIC	6525	10093	13356			
IBERIA AIRLINES, Madrid & Las Palmes, Canary Is.	6587	8837	8970	11318	13304	17946
	21886					
KENYA AIRWAYS & EAST AFRICA AIRWAYS Nairobi	3081	6700	8930	8967	13205	
	17983	21886				
KLM AIRLINES, Amsterdam	3921	5659	8952	13356	17965	21925
LUFTHANSA AIRLINES, Frankfurt		3453	5645	8995	10065	11359
	13296	17941	21970			
NEW YORK ARINC	6526	10093	13356	17941	21996	
OLYMPIC AIRWAYS, Athens	22050					
AIRFRANCE (Paris Rdaio)	6525	10093	13296	17941	21944	

AIRLINE AND OR OPERATOR	FREQUENCIES: KHz/USB					
QANTAS AIRLINES, Sydney	6526	10093	13356	17949		
PAN AM AIRLINES, Roberts, Liberia	4696 17949	6680 21926	8819	11343	13320	
SAN JUAN ARINC	6526	10093	13356			
SAUDI AIRLINES, Jeddah	3481 17986	5526 21886	8990 23307	11199	13205 (LSB)	
BOAC AIRWAYS, London (Speedbird)	3481	6568	10093	13356	17965	21886
SOUTH AFRICAN AIRWAYS, Johannesburg (Springbok)	5687	6670 17954	8914 21886	10093	11324	13240
TAP Kano, Nigeria	8992					
UTA AIRLINES, Ivory Coast	5177					
VARIG AIRLINES, Brazil	5461 11295	5617 18023	6659	8889	10089	
YUGOSLAV AIR TRANSPORT, Belgrade		11228				
PERUVIAN COMMERCIAL AVIATION CORP, Lima	6852	16260				

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FIRESTONE TIRE AND RUBBER COMPANY

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The Firestone Tire and Rubber Company maintains a CW communications link between its headquarters in Akron, Ohio and its Rubber Field in Harbel, Liberia. Below are the details. All transmissions are CW

AKRON, OHIO

Freq-KHz	Call Sign
7775	WQA27
10265	WQB20
13945	WQB23
15780	WQB35
15940	WQB25
19335	WQB39
19780	WQB29

HARBEL, LIBERIA

Freq-KHz	Call Sign
4475	ELF34
7580	ELE7
10310	ELE10
13945	ELE12
14605	ELE14
15940	ELE25
18530	ELE18
19335	ELE39
19780	ELE19
19940	ELE29

AERONAUTICAL IN-ROUTE FREQUENCIES FOR GROUND TO AIR USE

SEA-1	SEA-2	SEA-3	CWP1/2	NP3/4	CEP-5	SP-6/7	NW & SW SAM	NE & SE C & SAM
2987	2868	2987	2896	2910	3001	2945	2889	2910
5673	5624	5673	5505	5589	3467	5638	4696	5582
8882	8840	8868	6631	8938	5554	8847	6666	8847
13288	8868	8854	8854	13264	5603	13304	8826	11327
17965	13312	13288	11303	17909	8875	17909	11343	13320
	17965	17965	13296		8931		17917	17917
			17909		13312			
					13336			
					17909			

SAT	W-CAR	E-CAR	NAT-A	NAT-B	NAT-C	NAT-D	AFI-1	AFI-2/4
3432	2966	2952	2931	2987	2945	2868	3432	3411
6610	5568	5484	5610	5673	5638	5624	6610	5519
8882	6561	6540	8945	8889	8854	8910	8882	8826
10049	6568	6568	13328	13288	13288	13328	13344	13304
13344	8840	8959	17941	17941	17941	17941	17925	17925
17949	10017	11343						
	13320	11367						
	17925	17925						

AFI-3	AFI-5	EUR-A	MID-1	MID-2
2966	3481	2910	3404	3446
5505	6561	4689	5603	6624
8959	10025	6582	8847	10009
13336	13336	8875	13336	13336
17925	17925	11303		

AIRPORTS IN EACH IN-ROUTE ZONE

SOUTH EAST ASIA ZONE 1 (SEA-1)
Delhi, India
Calcutta, India
Madras, India
Colombo, Sri Lanka
Singapore, Malaysia
Bangkok, Thailand

SOUTHEAST ASIA ZONE 2 (SEA-2)
Bangkok, Thailand
Singapore, Malaysia
Manilia, Philippines
Hong Kong

SOUTH EAST ASIA ZONE 3 (SEA-3)
Singapore, Malaysia
Djarkata, Indonesia
Biak, Papua
Darwin, Australia
Perth, Australia

CENTRAL WEST PACIFIC ZONE 1 (CWP-1)
Ulan Bator, Mongolia
Peking, China
Seoul, Korea
Tokyo, Japan
Naha, Okinawa
Manila, Philippines
Hong Kong
Shanghai, China

AFRICAN ZONE 1 (AFI-1)
Lisbon, Portugal
Casablanca, Morocco
Dakar, Senegal
Abidjan, Ivory Coast

CENTRAL WEST PACIFIC ZONE 2 (CWP-2)
Tokyo, Japan
Naha, Okinawa
Manila, Philipines
Guam
Wake Island
Honolulu, Hawaii
Biak, Papua

AFRICAN ZONE 2 (AFI-2)
Algiers, Algeria
Kano, Nigeria
Malta

AFRICAN ZONE 3 (AFI-3)
Nairobi, Kenya
Addis Ababa, Ethiopia
Malya
Cairo, Egypt
Jeddah, Saudi Arabia
Bombay, India

AFRICAN ZONE 4 (AFI-4)
Kano, Nigeria
Accra, Ghana
Johannesburg, South Africa

AFRICAN ZONE 5 (AFI-5)
Salisbury, Rhodesia
Nairobi, Kenya
Bombay, India
Cocos Islands
Perth, Australia

MIDDLE EAST ZONE 1 (MID-1)
Jeddah, Saudi Arabia
Bahrain
Cairo, Egypt
Ankara, Turkey
Bagdad, Iraq
Tehran, Iran

MIDDLE EAST ZONE 2 (MID-2)
Tehran, Iran
Bahrain
Delhi, India
Calcutta, India
Karachi, Packistan
Bombay, India

EUROPE ZONE A (EUR-A)
Lenningrad, USSR
Moscow, USSR
Ankara, Turkey
Cairo, Egypt
Istambul, Turkey
Malta

NORTH ATLANTIC ZONE D (NAT-D)
Thule, Greenland
Sondrestrom, Greenland
Resolute Bay, NWT, Canada
Churchill, Man., Canada
Edmonton, Alb., Canada
Winnipeg, Man., Canada

NORTH PACIFIC ZONE 3 (NP-3)
Tokyo, Japan
Khabarovsk, USSR
Cold Bay, Alaska
Anchorage, Alaska
Resolute Bay, NWT, Canada
Point Barrow, Alaska

NORTH PACIFIC ZONE 4 (NP-4)
Cold Bay, Alaska
Anchorage, Alaska
Resolute Bay, NWT, Canada

CENTRAL EAST PACIFIC ZONE 5 (CEP-5)
San Francisco, CA
Honolulu, Hawaii

SOUTH PACIFIC ZONE 6 (SP-6)
Sydney, Australia
Auckland, New Zealand

SOUTH PACIFIC ZONE 7 (SP-7)
Pago Pago, American Samoa
Tahiti
Honolulu, Hawaii
Easter Island

NORTH ATLANTIC ZONE A (NAT-A)
San Juan, Puerto Rico
New York, USA
Santa Maria, Azores
Lisbon, Portugal
Madrid, Spain
Shannon, Ireland
Reykjavik, Iceland
Gander, Canada

NORTH ATLANTIC ZONE B & C (NAT-B/C)
New York, NY
Gander, Canada
Shannon, Ireland
Reykjavik, Iceland
Santa Maria, Azores

NAT-D Continued
Goose Bay, Lab., Canada
Gander, NFLD, Canada
Reykjavik, Iceland
Shannon, Ireland

WESTERN CARIBEAN (W-CAR)
Miami, USA
Merida, Mexico
Balboa, Canal Zone

SOUTH EAST SOUTH AMERICA (SE-SAM)
Buenos Aires, Argentina
Montevideo, Uruguay
Rio de Janeiro, Brazil

EAST CARIBEAN (E-CAR)
Bogota, Columbia
San Juan, Puerto Rico
Balboa, Canal Zone
Caracas, Venez.
New York, USA

SOUTH ATLANTIC (SAT)
Dakar, Senegal
Recife, Brazil
Rio de Janeiro, Brazil

CENTRAL-SOUTH AMERICA (C-SAM)
Balboa, Canal Zone
Bogota, Columbia
Belem, Brazil
Rio de Janeiro, Brazil

SOUTH WEST-SOUTH AMERICA (SW-SAM)
Easter Island
Lima, Peru
Asuncion, Paraguay
Santiago, Chile
Buenos Aires, Argentina
Montevideo, Uruguay
Antofagasta, Chile

NORTH WEST-SOUTH AMERICA (NW-SAM)
Balboa, Canal Zone
Bogota, Columbia
Quito, Ecuador
Lima, Peru

NORTH EAST-SOUTH AMERICA (NE-SAM)
Caracas, Venez.
Belem, Brazil

U.S. SUBMARINE COMMUNICATIONS

The following is a list of the most common frequencies used to communicate with US Submarines:

Freq.-KHz	Source
45 Hz ELF	Sanguine Project
75 Hz ELF	Sanguine Project
10.2 KHz	All Omega Sites
11.05	All Omega Sites
11.33	All Omega Sites
11.80	Omega Site,Hawaii
13.10	Omega Site,N.Dakota
13.6	Omega Sites,all
17.4	NAVCOMMSTA NDT,Japan
17.80	NAVRADSTA NAA Cutler,ME
18.60	NAVCOMMSTA Jim Creek,WA
22.30	NAVCOMMSTA NWC, Exmouth
23.40	NAVCOMMSTA NPM,Honolulu
88.00	NAVCOMMSTA NAM,Norfolk
100.00	Loran C & D Sites
131.05	NAVCOMMSTA NPM, Honolulu
134.90	NAVCOMMSTA NAM, Norfolk
2732	Nuclear Strategic Missile Subs Net code name is LOCKHEED
4253	Nuclear Attack Sub. Net
4765	Nuclear Strategic Missile Subs

REPUBLIC OF MEXICO
VHF-UHF FREQUENCY LIST

FREQ. MHz	Call Sign	User
30.25		Tijuana Gas Co.
31.85		State Hwy Patrol
31.85	XBLB2	Baja State Police
		Mexicali State Police
40.82		Mexicali Fire Dept
46.96		Mexacali Police
148.50		Ensenada Police
		Tecate Police
148.70		Tijuana Mobile Telephone
149.625		Navy Acapulco Harbor
151.40		Tijuana Police
151.46		Tijuana Police
151.625		Navy Acapulco Harbpr, Rep. Out for 150.065
154.70		Fed Hwy Patrol F-2
		Acapulco Hwy Patrol
154.73	6DB23	Fed Hwy Patrol
154.76	6DB55	Fed Hwy Patrol
154.79	6DB82	Fed Hwy Patrol
156.30		Navy-Acapulco
158.78	XBLK2	Red Cross
160.25		Tijuana Water Dist
163.40		Tijuana Mobilephone
164.00	XBB802	XETV Remote Brcsts
171.725		Tijuana Taxi Sce
172.00		Fed Police-Tijuana
		Red Police-Acapulco

FEDERAL AVIATION ADMINISTRATION (F.A.A.) HIGH FREQUENCY SSB EMERGENCY NET

Frequencies: 4056.5 5861 7476.5 8126.5 13627.5 14853 16281.5 20853.5

Call Sign	Station
KEM80	Washington DC H.Q.
KIT88	Washington DC EOF
WHX45	ANE RO Burlington,MA
KLD70	ANE EOF Nashua,NH
KJK82	AEA RO New York,NY
KJK76	AEA EOF Ronkonkoma,NY
KCD73	ARTCC New York, Ronkonkoma, NY
KJK80	ARTCC Washington, DC Leesburg, VA
KLN80	NAFEC Atlantic City,NJ
KDM49	ASO RO Atlanta, GA
KDM50	ASO EOF Hampton, GA
KDM52	ARTCC Memphis, Tn
KMA47	ARTCC Miami, FL
KJK79	ARTCC Jacksonville, Hilliard, FL
KDM45	ARTCC San Juan,PR
KED54	Balboa, Canal Zone
WHX51	AGL RO Chicago, IL
KJB96	AGL EOF Aurora, IL
KLA25	ARTCC Cleveland, Oberlin, Ohio
KLB48	ARTCC Indianapolis,IN
KCJ20	ARTCC Minneapolis, Farmington, Minn.
KKU40	ACE RO Kansas City,MO
KKA82	ACE EOF Olathe, KS
KIA21	Aeronautical Center Oklahoma City, OK
KDM47	ASW RO Ft Worth,TX
KBQ25	ASW EOF Ft Worth, TX
KMU31	Houston ARTCC, Tx
KEA37	ARTCC Albuquerque,NM
WHX46	ARM RO Denver, Co.
KCP63	ARM EOF Longmont, Co.
KDC20	ARTCC Salt Lake City,UT
KJK73	AWE RO Palmdale, CA
KJK77	AWE EOF Palmdale, CA
KMR96	ARTCC Oakland, Freemont, CA
WHX20	ANW RO Seattle, WA
WHX44	ANW EOF Auburn, WA
KCJ70	ARTCC Seattle, Auburn, WA
KDM53	AAL RO Anchorage, AK
KGA32	APC RO Honolulu, Hawaii
KCC97	APC EOF Honolulu, Hawaii

AREAS

ANE	North East Area
AEA	Eastern Area
ASO	Southern Area
AGL	Great Lakes Area
ACE	Central Area
ASW	South Western Area
ARM	Rocky Mountain Area
AWE	Western Area
ANW	North West Area
AAL	Alaskan Area
APC	Pacific Area

OFFICE CODES:

EOF	Emergency Operating Facility
RO	Regional Office
ARTCC	Air Traffic Control Center
SFO	Special Flight Office
HQ	Headquarters
NAFEC	Naval Aircraft Flight Engr Ctr

This Network is used for Emergency & Maintence Communications for readiness as well as for accident scenes.

FEDERAL AVIATION ADMINISTRAION SOUTHERN AREA EMERGENCT NET- 7576.5 KHz

Call Sign	Location
KAN34	Chattanooga, Tn
KAO28	Elizabeth City, NC
KBH85	Cofield, NC
KBN72	Savanah, GA
KBZ80	Greer, SC
KCA58	Raleigh, NC
KCC34	Alma SFO, GA
KDM45	ARTCC San Juan,PR
KDM49	RO Atlanta, GA
KDM50	ARTCC Atlanta,GA
KDM51	Meridian, Miss.
KDM52	Memphis, Tn
KDQ21	Wilmington, Del.
KED54	ARTCC Balboa, CZ
KEF63	Lynch, KY SFO
KEG95	Gulfport, Miss.
KEH74	West Palm Beach, FL
KEX63	Tampa, FL
KFC87	Knoxville, TN
KGC34	Pensacola, FL
KJK79	Hilliard, FL
KKA36	Tallahassee, FL
KKW23	Tri City, Tn
KKW51	Ashville
KLC48	Montgomery, AL
KLD95	Key West, FL
KMA47	Miami, FL ARTCC
KMJ20	Mobile, AL
KNH47	Mobile, AL
KNH47	SFO London, KY
KOR82	Orlando, FL
KSA75	IFSR Miami, FL
KSB53	SFO St Thomas, VI
KSE31	SFO Panama City, FL
KUA21	Gainsville, FL SFO
KUQ95	SFO Brunswick, GA
KUR64	Charleston AFS, SC
KUR65	SFO Myrtle Beach, SC
KUR66	SFO New Bern, NC
KUR67	Valdosta AFS, GA
KUR68	SFO Dothan, AL
KUR87	SFO Hattiesburgh, Miss.
KUS79	Florence, SC SFO
KUU58	SFO Crestview, FL
KUU97	SFO St Croix, FL
KUV62	Atlanta AFS, GA

Call Sign	Location
KUV64	RO Atlanta, GA
KUV70	SFO Nashville, TN
KUW43	SFO Louisville, KY
KUX58	Covington, KY
KUX86	SFO Lexington, KY
KUY73	SFO Greensboro, NC
KUZ31	SFO Columbia, SC
KUZ66	SFO Augusta, GA
KVA27	SFO Macon, GA
KVA92	SFO Columbus, GA
KVA93	SFO Birmingham, AK
KVA94	SFO Jackson, Miss.
KVA95	SFO Huntsville, AL
KVH40	SFO Sarasota, FL
KWF53	SFO Ft Myers, FL
KXC70	SFO Melbourne, FL
KXG85	SFO Daytona Beach, FL

Call Sign	Location
WBR70	Miami (Perrine) FL
WHE47	SFO Vero Beach, FL
WHE48	SFO St Petersburg, FL
WHE49	SFO Jacksonville, FL
WHE50	SFO Miami, FL
WHE55	Telfers Isld, Canal Zone
WHZ70	Balboa, Canal Zone
WFP70	St Croix, VI
WRW70	San Juan (Cibuco) PR
WWQ70	St Thomas, VI

The above network has been known to test their radios at 9:45 local time on Wednesdays.

In addition some of the above stations also operate on the NORTHEAST Regional Net using 6870 KHz

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FEDERAL AVIATION ADMINISTRATION & USAF COMBINED COMMUNICATIONS SYSTEM CALL SIGNS

Call Sign	User
TRADEWIND ALFA	FAA Administratir, Washington DC
TRADEWIND BRAVO	FAA Deputy Administrator, Washington, DC
TRADEWIND CHARLIE	FAA Associate Administrator, Washington, DC
TRADEWIND DELTA	FAA Director, Air Traffic Service, Washington, DC
TRADEWIND ECHO	FAA Director, Flight Standards Service, Washington,DC
TRADEWIND SIERRA	FAA Communications Control Center, Washington, DC
SNOWBALL ALFA	Regional Director, New York, NY
SNOWBALL BRAVO	Regional Director, Atlanta, GA
SNOWBALL CHARLIE	Regional Director, Kansas City, Mo
SNOWBALL DELTA	Regional Director, Ft Worth, Tx
SNOWBALL ECHO	Regional Director, Los Angeles, CA
SNOWBALL FOXTROT	RAO New York, NY
SNOWBALL FOXTROT 1	RAO Atlantic City, NJ
SNOWBALL FOXTROT 2	RAO Bedford, Mass.
SNOWBALL FOXTROT 3	RAO Columbus, OH
SNOWBALL GULF	RAO Atlanta, GA
SNOWBALL GULF 1	RAO Atlanta, GA
SNOWBALL GULF 2	RAO Orlando, FL
SNOWBALL GULF 3	RAO Meridian, Miss.
SNOWBALL GULF 4	RAO Miami, FL
SNOWBALL HOTEL	RAO Kansas City, Mo
SNOWBALL HOTEL 1	RAO Kansas City, Mo
SNOWBALL HOTEL 2	RAO Minneapolis, Minn.
SNOWBALL HOTEL 3	RAO Battle Creek, Mi
SNOWBALL KILO	NFHQ NAFEC Atlantic City, NJ
SNOWBALL OSCAR	RAO Los Angeles, CA
SNOWBALL OSCAR 1	RAO Los Angeles, CA
SNOWBALL OSCAR 2	RAO Oakland, CA
SNOWBALL OSCAR 3	RAO Seattle, WA
SNOWBALL OSCAR 4	RAO Salt Lake City, UT
SNOWBALL OSCAR 5	RAO Denver, Co.
SNOWBALL PAPA	NFHQ Oklahoma City, OK
SNOWBALL PAPA 1	NFHQ Oklanhoma City, OK
SNOWBALL PAPA 2	NFHQ Washington, DC
SNOWBALL PAPA 3	NGHQ Los Angeles, CA
SNOWBALL PAPA 4	NFHQ Oklahoma City, Tinker AFB, OK
SNOWBALL ROMEO	CCC New York, NY
SNOWBALL SIERRA	CCC Atlanta, GA
SNOWBALL TANGO	CCC Kansas City, KS
SNOWBALL VICTOR	CCC Fort Worth, Tx
SNOWBALL ZULU	CCC Los Angeles, CA
SNOWBALL NOVEMBER	RAO Ft Worth, Tx
SNOWBALL NOVEMBER 1	RAO Ft Worth, TX
SNOWBALL NOVEMBER 2	RAO Albuquerque, NM
SNOWBALL NOVEMBER 3	RAO Houston, Tx

RAO=Regional Area Officer
CCC= Communications Control Center
NFHQ=National Field H.Q.

PUBLIC CLASS II-B COAST STATIONS, COAST HARBOR SERVICE (MARINE OPERATOR STATIONS)

CALL SIGN	LOCATION	OWNER	FREQUENCIES-KHz/Coast Trans.
KBP	Kahuku, Hawaii	Hawaiian Telephone Co.	2530
KCC	Corpus Christi, Tx	S.W. Bell T & T	2538
KFX	Astoria, OR	Pacific N.W. Bell	2442 2598
KGN	Delcambre, LA	Delcambre Tel. Co.	2506
KLH	San Francisco, Calif.	Pacific Tel & Tel.	2450 2506
KMV	Agana, Guam		
KOE	Eureka, Calif.	Pacific N.W. Bell	2450 2506
KOU	San Pedro, Calif.	Pacific Tel. & Tel.	2466 2522 2566 2598
KOW	Seattle, Washington	Pacific N.W. Bell	2482 2522
KQP	Galveston, Texas	S.W. Bell Tel. Co.	2450 2530
KTJ	Coos Bay, Oregon	General Tel. Co. of NW	2566
WAD	Port Washington, Wisc.	Lorain Electronic Corp	2514 2550 2582 4415.8 4428.6 8783.2
WAH	St Thomas, Virgin Islds	Virgin Islds Radio	2506
WAK	New Orleans, La	Southern Bell T & T	2482 2598 4419
WAN/Z	Atlanta, Georgia	Southern Bell T & T	2450
WAQ	Ocean Gate, New Jersey	American T & T	2558
WAS	Duluth, Minn.	Lorain Electronic Corp.	2514 2550 2582 4415.8 4428.6 8783.2
WBL	Buffalo, New York	Great Lake Marine Radio	2514 2550 2582 4415.8 4428.6 8783.2
WCM	Pittsburg, Penn.	RCA Communications	2782 4072.4 4371 6147.5 6455 8210.8
WCT	San Juan, Puerto Rico	All Am. Cable & Radio	2506 2530
WDR	Miami, Florida	Southern Bel Tel Co.	2442 2490 2514
WFA	Tampa, Florida	General Tel Co of FL	2466 2550
WFN	Louisville, Kentucky	AMCON Inc.	2782 4072.4 4371 6147.5 6455 8210.8
WGB	Norfolk, Virginia	Chesapeake & Potomic	2450 2538
WGK	St Louis, Missouri	RCA Communications	2782 4072.4 4371 6147.5 6455 8783.2
WJG	Memphis, Tenn.	WJG Inc.	2782 4072.4 4361 6455
WJO	Charleston, SC	Southern Bell T & T	2566
WLC	Rogers City, Michigan	Central Radio Telegraph	2514 2550 2582 4415.8 4434.9
WLO	Mobile, Alabama	Mobile Marine Radio	2572
WMH	Baltimore, Maryland	Maryland Port Auth.	2400
WMI	Lorain, OH	Lorain Electronic Corp.	2514 2550 2582 4415.8 4434.9 8783.2
WNJ	Jacksonville, Florida	Southern Bell T & T	2566
WOU	Boston, mass.	New England T & T	2450 2506 2550 2566
WOX	New York, NY	New York Telephone	2482 2522 2590

Each of the above stations operates on Upper Side Band. Beside radiotelephone traffic, each station also broadcasts weather forcasts several times per day. The above frequencies are all "Duplex". The frequency listed above are the Coast Station frequencies. To determine the ship frequency, consult the "pairing" list, below. WAY-Chicago and WEH/WLF-Wilmington no longer are in use.

PUBLIC CLASS II-B PAIRED CHANNELS:

SHORE	SHIP	SHORE	SHIP	SHORE	SHIP
2582	2206	4072.4	4072.4	4428.6	4130
2590	2198	4371	4371	6147.5	6147.5
2598	2206	4415.8	4117.2	6455	6455
2782	2782	4419	4120.4	8210.8	8210.8
				8793.2	8249.2

VHF-FM MARINE RADIOTELEPHONE CHANNELS & FREQUENCIES

CHANNEL NUMBER	FREQUENCIES SHIP TRANS.	COAST TRANS.	TYPE OF USE
1	156.05	160.65	International only
2	156.10	160.70	International only
3	156.15	160.75	International only
4	156.20	160.80	International only
5	156.25	160.85	International only
6	156.30		Intership Safety
7	156.35	160.95	Commercial Intership & ship/coast
7A	156.35	156.35	Commercial Intership
8	156.40		Commercial Intership
9	156.45	156.45	Non-commercial
10	156.50	156.50	Commercial Intership
11	156.55	156.55	Commercial Intership
12	156.60	156.60	Port Operations
13	156.65	156.65	Navigational & Bridge to Bridge
14	156.70	156.70	Port Operations
15	156.75	156.75	Environmental, receive only
16	156.80	156.80	Distress-Calling
17	156.85	156.85	State Control, Restricted use
18	156.90	161.50	Commercial Intership & ship/coast
18A	156.90	156.90	Commercial
19	156.95	161.55	Commercial Intership & ship/coast
19A	156.95	156.95	Commercial
20	157.00	157.00	Port Operations
21	157.05	161.65	U.S. Government use only
21CG	157.05	157.05	US Coast Guard Restricted
22	157.10	161.70	U.S. Government use only
22CG	157.10	157.10	U.S. Coast Guard & Auxillary
23	157.15	161.75	U.S. Government use only
23CG	157.15	157.15	U.S. Coast Guard use
24	157.20	161.80	Public Coorespondence
25	157.25	161.85	Public Coorespondence
26	157.30	161.90	Public Coorespondence
27	157.35	161.95	Public Coorespondence
28	157.40	162.00	Public Coorespondence
60	156.025	160.625	International only
61	156.075	160.675	International only
62	156.125	160.725	International only
63	156.175	160.775	International only
64	156.225	160.825	International only
65	156.275	160.875	International only
65A	156.275	156.275	Port Operations
66	156.325	160.925	International only
66A	156.325	156.325	Port Operations
67	156.375		Commercial Intership
68	156.425	156.425	Non-commercial
69	156.475	156.475	Non-commercial
70	156.525		Non-commercial
71	156.575	156.575	Non-commercial
72	156.625		Non-commercial
73	156.675	156.675	Port Operations
74	156.725	156.725	Port Operations
75			Guard Channel
76			Guard Channel
77	156.875		Commercial Intership
78	156.925	161.525	International only
78A	156.925	156.925	Non-commercial
79	156.975	161.575	International only

79A	156.975	156.975	Commercial Intership
80	157.025	161.625	International only
80A	157.025	157.025	Commercial Intership
81	157.075	161.675	U.S. Government use
82	157.125	161.725	U.S. Government use
83CT	157.175	171.775	International only
83CG	157.175	157.175	U.S. Coast Guard use
84	157.225	161.825	Public Coorespondence
85	157.275	161.875	Public Coorespondence
86	157.325	161.925	Public Coorespondence
87	157.375	161.975	Public Coorespondence
88	157.425	162.025	Commercial Intership
88A	157.425	157.425	Commercial Intership
WE1		162.55	NOAA Weather
WE2		162.40	NOAA Weather
WE3		161.65	Canadian Weather
WE4		162.475	NOAA Weather

Information:
Where a ship frequency is listed and no coast frequency, only ships can operate on that channel. Where a coast frequency and not a ship frequency is listed only a coast station can operate on that channel.

Intership Safety is ised for commercial and non-commercial vessels for information having a direct bearing on the movement of vessels and of such importance that if delayed in the transmission or reception it may adversely effect the safety of life and property.

Commercial Intership is a working channel for use by commercial vessels for communications between vessels and between commercial vessels and limited coast stations on the same channels to fulfil a wide scope of needes, including vessel dispatching

Port Operations may be used by commercial and non commercial vessels and is used at locks and bridges operated by the Corps of Engineers

Navigational, Bridge to Bridge is for use by commercial and non commercial vessels primarily for communications between the bridges of vessels. Use limited to navigational communications such as in a passing situation.

Environmental is for assignment to coast stations, but is rarely used

Distress, Safety and Calling may be used for emergency situations.

State Control is for use both by commercial and non commercial vessels for communications with stations operated by State Governments or by Municipal Governments

Public Coorespondence is for use by commercial and non commercial vessels the channel is guarded by the local Marine Operator, who will for a fee place telephone calls

Non-Commercial is limited to use by non-commercial vessels and coast stations supporting such vessels, including Yacht club channels.

U.S.Government use is limited to use by agencies of the U.S. Government.

UNITED STATES AMERICAN TELEPHONE & TELEGRAPH COMPANY

HIGH SEAS RADIOTELEPHONE

American Telephone & Telegraph Company (A T & T) operates three High Seas Radiotelephone stations within the U.S. These stations can be heard talking to ships all around the world. The primary function of these High Sea Stations is for ship to shore radiotelephone calls. However they also broadcast weather information. Below are detailed schedules for these stations. All transmissions are on USB.

KMI
Point Reyes (San Francisco)
California

Channel Number	Coast Station Transmit Frequency-KHz	Ship Station Transmit Frequency-KHz
4-1	4357.4	4063.0
4-16	4403.9	4109.5
4-17	4407.0	4112.6
8-4	8728.2	8204.3
8-9	8743.7	8219.8
8-14	8759.2	8235.3
8-22	8784.0	8260.1
12-1	13100.8	12330.0
12-2	13103.9	12333.1
12-3	13107.0	12336.2
12-29	13187.6	12416.8
12-30	13190.7	12419.9
16-2	17236.0	16463.1
16-3	17239.1	16466.2
16-16	17279.4	16506.5
16-24	17304.2	16531.3
22-14	22636.3	22040.3
22-23	22664.2	22068.2
22-28	22679.7	22083.7
22-36	22704.5	22108.5

Traffic List giving the names of all ships who have telephone calls waiting will be given every three hours starting at 0000 GMT on 4-1, 8-4, 8-22, 12-1, 12-29, and 16-2. The traffic list will be omitted on any busy channel.

Weather will be broadcast at 0000, 0600 and 1500 GMT on the same channels as the traffic list transmissions. Weather reports are from the National Weather Service.

WOO
Manahawkin, NJ
(New York)

Channel Number	Coast Station Transmit Frequency-KHz	Ship Station Transmit Frequency-KHz
4-10	4385.3	4090.9
4-11	4388.4	4094.0
4-16	4403.9	4109.5
4-22	4422.5	4128.1
8-8	8740.6	8216.7
8-11	8749.9	8226.0

WOO continued

Channel Number	Coast Station Transmit Frequency-KHz	Ship Station Transmit Frequency-KHz
8-15	8762.3	8238.4
8-26	8796.4	8272.5
12-3	13107.0	12336.2
12-10	13128.7	12357.9
12-11	13131.8	12361.0
12-28	13184.5	12413.7
12-30	13190.7	12419.9
16-05	17245.3	16472.4
16-20	17291.8	16518.9
16-26	17310.4	16537.5
16-31	17325.9	16553.0
22-1	22596.0	22000.0
22-5	22608.4	22012.4
22-10	22623.9	22027.9
22-36	22704.5	22108.5

Traffic List giving the names of all ships who have telephone calls waiting will be broadcast on all odd numbered GMT hours starting with 0100 on the following channels 4-10, 4-11, 8-8, 8-11, 12-3, 12-10, 16-5, 16-20, 22-01 and 22-5 and on all even numbered GMT hours starting with 0000 on the following channels 4-16, 4-22, 8-15, 8-26, 12-11, 12-28, 12-30, 16-26, 16-31 and 22-10. The traffic list will be omitted on any busy channel.

Weather will be broadcast at 0100, 1300 and 1900 GMT on 4-10, 4-11, 8-8, 8-11, 12-3, 12-10, 16-5, 16-20, 22-1, and 22-5, and at 0200, 1400 and 2000 on 4-16, 4-22, 8-15, 8-26, 12-11, 12-28, 12-30, 16-26, 16-31 and 22-10.

WOM
Ft Lauderdale, Florida

Channel Number	Coast Station Transmit Frequency-KHz	Ship Station Transmit Frequency-KHz
4-3	4363.6	4069.2
4-12	4391.5	4097.1
4-17	4407.0	4112.6
4-23	4425.6	4131.2
8-2	8722.0	8198.1
8-5	8731.3	8207.4
8-10	8746.8	8222.9
8-25	8793.3	8269.4
8-31	8811.9	8288.0
12-6	13116.3	12345.5
12-8	13122.5	12351.7
12-9	13125.6	12354.8
12-15	13144.2	12373.4
12-23	13169.0	12398.2
16-1	17232.9	16460.0
16-9	17257.7	16484.8
16-10	17260.8	16487.9
16-11	17263.9	16491.0
22-15	22639.4	22043.4
22-16	22642.5	22046.5
22-22	22661.1	22065.1

WOM continued

Traffic List is broadcast at 0030, 0430, 0830, 1230, 1630 and 2030 on 4-3, 8-2, 12-6, 16-1, and 22-15 at 0230, 0630, 1030, 1430, 1830, and 2230 on 4-17, 8-10, 12-9 and 16-10 at 0130, 0530, 0930, 1330, 1730 and 2130 on 4-12, 8-5, 12-8, 16-9 and 22-16 and at 0330, 0730, 1130, 1530, 1930 and 2330 on 4-23, 8-25, 12-15 and 16-11.

Weather is broadcast at 1230 GMT on 4-3, 8-2, 12-6, 16-1 and 22-15 at 1330 on 4-12, 8-5, 12-8, 16-9 and 22-16 and at 2230 on 4-17, 8-10, 12-9 and 16-10 and finally at 2330 on 4-23, 8-25, 12-15 and 16-11.

INTERNATIONAL RED CROSS EMERGENCY RADIO NETWORK .-- ... --- ...

FREQUENCY/KHZ	FREQUENCY/KHZ
3801.5	20753 Primary
6998.5	20815
13915	20942
13965	20998
13973	27998
13998.5	29701
20735	47.42 MHz

CALL SIGN	LOCATION
APR88	Islamabad, Pakistan
CER88	Santiago, Chile
CICR5	Luang Prabang, Laos
CPCR88	Asuncion, Paraguay
CRC88	Lome, Togo
CPR88	La Paz, Bolivia
DKRB2	Bonn, West Germany
DUG88	Manila, Phil.
EAR88	Madrid, Spain
HBC88	HQ Versoix, Switzerland
HBC88A	Geneva, Switzerland
HCR88	Quito, Ecuador
HHR88	Pt-au-Prince, Haiti
HICR88	Santo Domingo
HJC88	Bogota, Columbia
HSR59	Bangkok, Thailand
HRCR88	Tegucigakoa, Honduras
ICRC1	Decca, Bangladesh
JYL88	Amman, Jordan
OAR88	Lima, Peru
OER88	Vienna, Austria
ODR88	Beyrouth, Lebanon
PGA88	Delft, Holland
SUR88	Cairo, Egypt
TICR88	San Jose, Costa Rica
TDR88	Guatemala
VPR88	Nassau, Bahamas
VWA510	New Delhi, India
XUR88	Phnom Pen, Khmere Rep.
YKR88	Damascus, Syria
YNCR88	Managua, Nicaragua
YVPR8	Caracas, Venezuela
YSCR88	San Salvador, El Salvador
4XR88	Jerusalem, Israel
4WA2	Sanaa, Yeman
8PRC88	Bridgetown, Barbados
9JR88	Lusaka, Zambia

Add Ons

CX8CRU	Montevideo, Uruguay
HPC88	Panama City, Panama
S2C88	Dacca, Bangladesh
XWR88	Vientiane, Laos

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC & ATMOSPHERIC ADMIN
NATIONAL WEATHER SERVICE

FREQUENCIES: KHz/USB

2463.5	7880-weather	16485.9	22312
2614	8282.6	16566.4	22429.4
2638-beacon	8646	16573.4	22700
3333	8754	17084	23651.4
4140.9	8800.6	17175	1618.65-beacon
4380	12401.4	17268	1653.425-beacon
4404.4	12422.4	17271	1718.59-beacon
4433.2	12425.9	17280.9	1798.5-beacon
6211.8	12894	17902	1799.6-beacon
6379	13065	22025.9	2398-beacon
6393	13142	22099.4	2456-beacon
6516.8	13180.4	22106.4	2510-beacon
6977.5-weather	14792-weather	22109.4	2848-beacon

COAST STATIONS

KAB	Honolulu Ocean Institute
KAF	Atlantic Highlands,NJ
KAI	San Juan, PR
KBR	Beaumart,SC
KHW	Pensacola,FL
KJS	Kings Point,NV
KVD	Norfolk,VA
KVH	Norfolk Atlantic Marine Ctr
KVK	Miami S.E. Marine Support Fac
KVJ	Pacific Marine Ctr-Seattle
KVR	Detroit, MI
KAW51	Tucson,AZ
KAW52	Honolulu, HI
KAW53	College,AK
KAW54	Pt Barrow,AK
KAW55	Seattle, WA
KAW56	Fredicksburg,VA
KAW57	Sitka,AK
KAW58	Guam
KAW60	Norfolk,VA
HRK6A	Swan Island

SCRIPPS BUCOM FISHERIES, La Jolla, CA

WWD 8789.7

SHIP STATIONS

WCGS	General Call for all Ships
WDAA	Laidly (Detroit)
WDAG	Shenehon (Detroit)
WDAJ	Johnson (Detroit)
WTDF	Townsend Cromwell
WTDX	David Star Jordan
WTEA	Discoverer OSS-2
WTEB	Fairweather MSS-20
WTEF	Rainier MSS-21
WTEG	Mt Michell MSS-22
WTEJ	McArthur OSS-30
WTEK	Davidson OSS-31
WTEO	Pathfinder OSS-30
WTEP	Oceanographer OSS-41
WTEQ	Pierce OSS-28
WTER	Researcher OSS-3
WTES	Surveyor OSS-32
WTET	Rude ASV-90
WTEW	Whiting

WOODS HOLE OCEANOGRAPHIC INSTITUTE
KAC-Woods Hole, Ma

2613 4406.2 6516

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC & ATMOSPHERIC ADMIN
HURICANE RESEARCH CENTER

Headquarters: Miami, Florida
Call Sign: KJY74
Aircraft ID as NOAA 41
NOAA 42
Freq/USB:
4468
6645
13260-Primary
17901

U.S. AIR FORCE, HURICANE RESEARCH

Beside NOAA, the Navy and Air Force operate Huricane Hunter Aircrat. These aircraft use the In-Flight Frequencies with the call signs listed below:

GULL = 53rd WRS Keesler AFB,Ms
TEAL = 815th WRS Keesler AFB, Ms
SWAN = Pacific WRS

MIAMI MONITOR is the NOAA Weather HQ
MATHER MONITOR is the USAF Weather HQ
All aircraft are WC-130 type

SHORTWAVE BROADCASTING STATIONS, FEEDERS AND OTHER BROADCASTING RELAYS

Shortwave Broadcasting stations use point to point radio transmitters to beam their program to their relay sites. At the present time some stations such as the Voice of America are also using satellite feeds for the same purpose. Below is an up to date list of those stations in use at this time. However in the future as more satellite feeds are used, it is expected that the number of shortwave feeds will decline.

Frequency KHz	Station	Mode
3867	SABS Riyadh	USB
4475	RFE Holzkirchen	ISB
4505	RFE Holzkirchen	ISB
4565	RFE Holzkirchen	ISB
4882	DW Frankfurt	USB
5027	SABS Riyadh	USB
5125	RFE Holzkirchen	ISB
5195	DW Frankfurt	LSB
5295	RFE Holzkirchen	ISB
5390	SABS Riyadh	LSB
5470	Radio Moscow HS	LSB
5745	VOA Greenville	LSB
5790	RFE Holzkirchen	ISB
5815	Radio Moscow HS	USB
5844	RFE Holzki-chen	ISB
5875	SABS Riyadh	LSB
6390	Radio Moscow FS	USB
6550	Radio Peking	
6770	Radio Moscow HS	LSB
6822	Radio Moscow HS	LSB
6825	Radio Peking	
6840	BBC Daventry	USB
6873	VOA Greenville	ISB
6880	SABS Riyadh	LSB
6920	Radio Moscow HS	LSB
6955	SABS Riyadh	LSB
6975	DW Frankgurt	USB
6995	RFE Holzkirchen	ISB
7410	Radio Moscow HS	LSB
7440	UN Geneva	USB
7490	Radio Moscow HS	LSB
7530	Radio Moscow HS	LSB
7550	Radio Moscow FS	LSB
7651	VOA Greenville	ISB/USB
7768.5	DW Frankfurt	USB/ISB
7800	Radio Peking	
7846	BBC Daventry	USB
7862	SABS Riyadh	USB
7893	BBC Daventry	ISB
7917	DW Frankfurt	USB
7925	Radio Moscow FS	USB
7955	Unidentified	ISB
7973	BBC Daventry	ISB
7977	Unidentified	ISB
7991	BBC Daventry	ISB
8125	Radio Moscow FS	USB
8345	Radio Peking	
8450	Radio Peking	
8490	Radio Peking	
8660	Radio Peking	
9022	Radio Baghdad,Iran	AM
9140	Radio Moscow HS	LSB
9145	Radio Moscow HS	USB
9150	Radio Moscow HS	USB
9200	Radio Moscow HS	USB
9210	Radio Moscow HS	LSB
9210	Radio Moscow FS	USB
9240	Radio Moscow FS	USB
9250	RFE Holzkirchen	ISB
10120	Radio Moscow FS	USB
10190	RFE Holzkirchen	ISB
10235	VOA Greenville	ISB
10315	RFE Holzkirchen	ISB
10330	Radio Moscow HS	LSB
10338	Radio Moscow HS	USB
10385	Unidentified	USB
10420	RFE Holzkirchen	ISB
10454	VOA Greenville	ISB
10457	VOA Greenville	ISB
10620	Radio Moscow FS	USB
10660	Radio Moscow HS	USB
10740	Radio Moscow FS	USB
10855	Radio Moscow HS	LSB
10860	RFE Holzkirchen	ISB
10865	Radio Peking	
10869	VOA Greenville	ISB
10880	VOA Monrovia	ISB
10922	DW Frankfurt	USB
11090	Unidentified	USB
11495	Radio Moscow FS	LSB
11575	RFE Holzkirchen	USB
11575	Radio Moscow HS	USB
11585	Rdaio Moscow HS	LSB
11600	Radio Moscow FS	USB
11630	Radio Peking	
11630	Radio Moscow HS	USB
11660	Radio Peking	
11675	RFE Holzkirchen	ISB
12100	Radio Moscow HS	USB
12127	BBC Daventry	USB
12135	Radio Moscow HS	LSB
12165	Radio Moscow HS	USB
12175	Radio Iceland	USB
12176	BBC Daventry	USB
12179	BBC Daventry	ISB
12205	Radio Moscow HS	LSB

Frequency KHz	Station	Mode
12223	Radio Moscow HS	LSB
12240	Radio Moscow FS	USB
12246	RFE Holzkirchen	ISB
12250	Radio Moscow HS	USB
12253	Radio Moscow FS	LSB
12290	Radio Australia	USB
13380	Radio Moscow HS	LSB
13395	SABS Riyadh	USB
13487	SABS Riyadh	USB
13491	VOA Greenville	USB
13512	DW Frankfurt	USB
13523	SABS Riyadh	USB
13590	Radio Moscow HS	USB
13690	RFE Holzkirchen	ISB
13710	Radio Moscow HS	USB
13760	Radio Moscow HS	USB
13814	SABS Riyadh	USB
13818	SABS Riyadh	USB
13820	Radio Moscow FS	USB
13862	VOA Dixon	ISB
13960	Radio Moscow FS	LSB
13977	Radio Moscow HS	USB
14456	BBC Daventry	USB
14712	RFE Holzkirchen	ISB
14850	Radio Moscow HS	USB
15480	Radio Peking	
15490	Radio Moscow HS	USB
15500	Radio Peking	
15540	Radio Moscow HS	USB
15576	SABS Riyadh	USB
15589	BBC Daventry	ISB
15600	Radio Moscow HS	LSB
15670	BBC Daventry	USB
15752	VOA Greenville	ISB/USB
15775	RFE Holzkirchen	ISB
15780	Radio Moscow FS	USB
15849	BBC Daventry	ISB
15870	Radio Australia	USB
15910	BBC Daventry	ISB
15913	BBC Daventry	ISB
15920	VOA Bethany/Monrovia	USB
16030	Radio Moscow HS	USB
16065	RFE Holzkirchen	ISB
16190	Radio Moscow	USB
16222	VOA Greenville	ISB
16240	RFE Holzenkirchen	ISB
16250	Radio Moscow HS	USB
16330	Radio Moscow HS	USB
17445	RFE Holzkirchen	ISB
17490	Radio Peking	
17580	Radio Moscow HS	LSB
18150	Unidentified	ISB
18195	Radio Moscow HS	LSB
18275	VOA Greenville	ISB
18285	Radio Moscow HS	USB
18653	Radio Moscow FS	LSB
18830	Radio Moscow HS	LSB
19210	Radio Australia	USB
19261	VOA Bethany	USB/ISB

Frequency KHz	Station	Mode
19291	Unidentified	LSB
19455	BBC Daventry	USB/ISB
19480	VOA Greenville	ISB/USB
19505	VOA Greenville	ISB
19721	VOA Greenville	USB
19725	Radio Moscow HS	USB
19755	BBC Daventry	USB
19845	Radio Moscow HS	USB
19912	VOA Greenville	ISB
19915	VOA Delano	ISB
19918	VOA Greenville	USB
20062	VOA Greenville	ISB
20125	VOA Greenville	ISB
20215	RFE Holzkirchen	ISB
20280	Radio Moscow HS	USB
20345	BBC Daventry	ISB
20455	BBC Daventry	ISB
20650	RFE Holzkirchen	ISB
20710	RFE Holzkirchen	ISB
20935	RFE Holzkirchen	ISB
21760	VOA Monrovia	ISB
21800	VOA Monrovia	ISB
22930	BBC Daventry	ISB
22970	RFE Holzkirchen	ISB
23191	BBC Daventry	ISB
25350	RFE Holzkirchen	ISB
26440	BBC Daventry	USB

NOTES

SABS	Saudi Arabian Broadcasting Sce
HS	Home Service
FS	Foreign Service
USB	Upper Side Band
LSB	Lower Side Band
ISB	Independent Side Band (uses both USB & LSB)
VOA	Voice of America
DW	Deutsche Welle
BBC	British Broadcasting Corp

Call Signs

GWC	BBC Daventry
KLW61	VOA Greenville
TFJ	Radio Iceland

Note that from time to time the mode use changes.

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ASTROPHYSICAL STATION & FACILITY FREQUENCIES

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Smithsonian Institution Astrophysical Observatory
Cambridge, Mass

Call Sign: KCW21

Frequencies: (Duplex) 20610 KHz Transmit 17690 KHz Receive

Mode: RTTY, 100 wpm at 170hz shift, 2125 Mark and 2295 Space
also, prior to RTTY transmissions, there is USB Voice Coordination

Remote Facilities, Satellite Tracking Network & Laser Field Stations:
Arequipa, Peri OCK25
Natel, Brazil NA4XK (20089 KHz)
Orroval Valley, Australia
Mount Hopkins, Az

Kit Peak National Observatory
Tuscon, Arizona

Call Sign: KFK92

Frequencies: 10190 15528.5 and 20880 MHz, RTTY

Remote Facility:
Inter American Observatory at Cerro Tololo, Chile
Call Sign: XQ8AFI

Arecibo Ionospheric Observatory
Puerto Rico

Call Sign: WDR71

Frequency: 19091.7 KHz, LSB

Remote Facilities:
Unknown site WDR72

National Aeronautics and Space Administration
Marshall Space Flight Center
Hunstville, Alabama

Call Sign: KCA-Mussle Shoals, AK, KCC-Chattanoga, Tn and KTG-Chattanoga,Tn

Frequencies: 4012 KHz and 4759 KHz, CW

Transmissions are in CW and are from remote sites located on TVA property.

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NASA SPACE SHUTTLE COMMUNICATIONS SYSTEM

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Voice: 259.7 MHz AM
296.8 MHz AM

S-Band Uplink: 2041.9 MHz
2106.4 MHz
S-Band Downlink: 2217.5 MHz
2287.5 MHz
2250.5 MHz
KU-Band: 15.00085 GHz
13.77500 GHz

FREQ-KHz	Information
2264	Alaska Emergency Net
3175	WIM38 Rochester Gas Electric Station,N.Y.
3230	Alaska Emergency Net
3278.5	Bureau of Indian Affairs
3347	Soviet Fishing Fleet, Pacific Ocean-Intership
3382	Soviet Fishing Fleet, Pacific Ocean-Intership
3670	Mexico Hwy Emg. Radio Sce
4175	KXR977 La Rosa Base
4383.8	Alaska Emergency Net
4419.4	Oil Rigs, paired 4125 KHz
4460	Alaska Emergency Net
4572	Oil Rigs
4634.6	Oil Rigs
4637.4	Oil Rigs (Zapata Oil Co)
4638	NY State Power Pool
4792.5	Alaska Emergency Net
4752.4	NY State Power Pool
5047.9	NY State Power Pool
5056.9	NY State Power Pool
5075.9	NY State Power Pool
5103.4	WOU63 Ontario, N.Y NY State Power Pool
5134	Alaska Emergency Net
5195	Alaska Emergency Net
5374.7	North Sea Oil Rigs
5390	KGE22 on CW
5645	In-Flight to Oil Rigs
5749	Monterey, Mexico Civil Defense Net, Chan#6
6213	NY State Power Pool
6430	Russian Spy Channel-CW
6780	KUP71 on RTTY 60wpm/170hz
6949.9	Alaska Emergency Net
7369.9	Alaska Emergency Net
7480	Alaska Emergency Net
7410	KYP69 on RTTY 60wpm/170hz
7971	Oil Rigs-Libya
8888	Russuan Spy Channel-CW
9040.6	Oil Rigs, Australia
11474	KGO37 on CW
11602.5	Alaska Emergency Net
13120	Russian Spy Channel-CW
13971	US Monitor/Truce Camp, Golan Hts & Siani CIP9 and CIC9
14297	Black September Net
14775	Russian Spy Channel-CW
13650	Industial & Scientific Use
17080	Russian Spy Channel-CW
17909	WPC7 Aviation Station, Minneapolis, Minn.
18525	KGA60 Washington
19944	Soviet Space Freq.
19996	China 2 Satellite
20000	Russian Space Freq
20007	Space Rescue Freq.
20017	Chinese Satellite
23442.5	KGA61 Washington, DC
23975	KGA68 Washington, DC
29401	USSR Satellite RS-1 & RS-2 CW Beacon Freq.
29402	Oscar 8 Satellite CW Beacon, Mode B
29502	Oscar 7 Satellite CW Beacon Mode A

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NOTICE

We are always interested in information about stations listed in this publ-ication. We welcome corrections and additions. We also appreciate receiving information about those stations in operation that we have not included in this publication.

Please address your comments and letters to:

Handler Enterprises
P.O. Box 48
Deerfield, Illinois 60015
Attn: Research

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UNITED STATES GOVERNMENT MASTER VHF-UHF FREQUENCY LISTINGS

FREQ. MHZ		USER	LOCATION
30.45	FM	Army Nuclear Accident Team	Nationwide
30.46		Navy	San Diego, Ca
30.50		Army Operations	McGuire AAF, NJ
		Army Heliport Operations	Ft Sam Houston, Tx
32.10		National Guard Operations	Bradley Int'l Airport, Ct
		Army Control Tower	Robert Gray AAF, Ft Hood, Tx
		Army Control Tower	Goodman AAF, Ft Knox, Ky
32.30		Army Base Operations	Gray AAF, Ft Hood, Tx
32.40		Navy Amphibious Forces	San Diego, CA (Assault Craft Chan #Alfa)
32.44		Marine Corp	Glenview NAS, IL
32.46		Navy	Point Mugu NAS, Ca
32.50		McDonald Douglas Corp-WLK7	Long Beach Plant, CA
32.62		Marine Corp	Glenview NAS, IL
32.69		National Security Agency	Ft Meade, MD (Pager)
32.80		Navy Amphibious Forces	San Diego,CA (Bluejay Channel)
32.86		Navy "Fumble Base"	Pensacola NAS, FL
33.80		Navy Shore Patrol	USS Nimitz Aircraft Carrier
34.10		Army	Capital City, PA
34.50		Navy Admin. Channel-Amphib.	San Diego, CA
34.95		Marine Corp	Glenview NAS, IL
34.98		NOAA National Ocean Survey	Mobile Units
35.00		National Guard Operations	Widner, GA
36.14		Marine Corp	Glenview NAS, IL
36.19		NOAA National Ocean Survey	Land Units
36.20		National Guard Operations	Capital City, KY
		Navy Amphib. Forces-Ground Ops	San Diego, CA
36.22		NOAA National Ocean Survey	paired with 38.26 MHz
36.30		Army Nuclear Accident Team	Nationwide
		Army Range Operations	Hood AAF, Tx
36.45		NASA	Nationwide
36.50		National Guard Operations	Helena, MT
36.54		Marine Corp	Glenview NAS, IL
36.60		Navy Amphib. Forces	San Diego, CA (Oarfish Channel)
36.70		Army Control Tower	Biggs AAF, Tx
		Army Control Tower	Lawson AAF, Ft Benning, GA
		National Guard	Grayling AAF
36.80		Navy Amphib Forces	San Diego, CA
37.00		Army Control Tower	Troy Municipal Airport, MI
38.10		Navy Amphibious Forces	San Diego, CA (Assault Craft Bravo Channel)
		Army Maintence Channel	Ft Drum, NY
		Army Reserve	Pt Columbus, OH
38.20		Army Reserve	Columbia Metro Airport, SC
		Army	Columbia/Ft Jackson Helipad, SC
38.30		Army Range Operations	Hood AAF, Ft Hood. Tx
		Army Nuclear Accident Team	Nationwide
38.40		Army Mast Freq #2	Ft Carson, CO
		Marine Corp Air Group 13	MCAS El Toro, CA
38.50		Army Nuclear Accident Team	Nationwide
		Army Mast Freq #1	Ft Carson, CO
		Army Rangle Control	Ft Drum, NY
		National Guard	Akron Regional Office, OH
		National Guard Operations	Greensburg, OH

FREQ-MHZ	USER	LOCATION
38.60 FM	Navy Amphib. Forces	San Diego, CA
	National Guard Operations	Lincoln Municipal Airport, NE
	Air National Guard	Ohio State Univ., Columbus, OH
38.70	Army Operations	Goodman AAF, KY
	National Guard Operations	Forbes ANGB, KS
	National Guard Operations	Davenport Municipal Airport, Iowa
	National Guard Operations	Birmingham, AL
38.75	Navy Amphib Forces	San Diego, CA
38.85	National Guard Operations	Fairfax Municipal Airport, MO
38.89	Army Corp of Engrs-Chan #A	St Louis, MO
38.90	Army "Doggett"	Bicycle Lake AAF, Ft Irwin, CA
	Army	Camp Roberts, CA
38.91	Army Corp of Engrs-Chan #B	St Louis, MO
39.95	Army Control Tower	Simmons AAF, Ft Bragg, NC
40.17	Air Force Special Inv. Chan #1	Norton AFB, CA
40.19	Air Force	Chicago o'Hare Airport, IL
	Air Force Special Inv. Chan #2	Norton AFB, CA
40.20	National Guard Operations	Richard E. Byrd Int'l Airport, VA
	Air Force Reserve Operations	Cleveland Hopkins Int'l Airport, OH
40.29	NOAA National Ocean Survey	Mobile Units
40.30	Army	Ft Lewis Hospital Heliport, WA
	National Guard Operations	Dannelly Field, AL
	National Guard	Florida Statewide
40.50	Army Reserve Operations	Dallas NAS, Tx
40.51	Army Emergency Medical Use	Ft Bragg, NC
40.60	Army Weapons Range	Ft Riley, KS
	National Guard Operations	St Paul Downtown Airport, Minn
	National Guard Operations	Boone Municipal Airport, Iowa
40.80	Army Operations	West Bend Municipal Airport, WI
40.82	Navy	Orange Grove NALF, Tx
	Navy	Los Alamitos NAS, CA
	Marine Corp-Crash Crews	MCAS Santa Ana, CA
40.87	NASA	Nationwide
40.90	Army-Nuclear Accident Team	Nationwide
	Army Ground Control	Muir AAF
	National Guard	Lakefront Airport, New Orleans, LA
	National Guard Operations	Ft Trumbull, Groton, CT
41.00	National Guard	Akron Regional Airport, OH
	National Guard Operations	Greensburg, OH
	Air National Guard	Burlington, VT
	National Guard Operations	Islip Mac Arthur, NY
	National Guard Operations	Mather AFB, CA
	National Guard Operations	Mercer County Airport, NJ
	National Guard Operations	Whiteman AFB, MO
	National Guard Operations	Niagra Falls Int'l Airport, NY
41.05	Army	Ft Hunter, Liggett, CA
	Army Mast Freq.	Ft Sill, OK
	Army "Spicer Ops"	Ft Story Heliport, VA
41.06	Federal Communications Comm.	Nationwide-Field Office Use
41.10	National Guard Operations	Quonset State Park, RI
41.20	National Guard Operations	Bangor Int'l Airport, ME
41.25	Army Base Operations	Lakehurst NAS, NJ
	Army Helipad Operations	Ft Monmouth, NJ
41.30	Army Operations	Orlando Int'l Airport, FL
41.50	Army Control Tower	Gray AAF, WA
	Army Control Tower	Marshall AAF, Ft Riley, KS
	Army Control Tower	Wheeler AFB, HI
	Army Control Tower	Felker AAF, Ft Eustis, VA

FREQ-MHZ	USER	LOCATION
41.50 FM	Army Control Tower	Marshall AAF, Ft Riley, KS
	Army Base Operations	Homestead AFB, FL
	Army	Sacremento Army Depot, CA
	Army	Ft Chaffee, ARK
	Army Heliport	Ft Sam Houston, Tx
	Army Heliport	Ft Mounmouth, NJ
	Army	Sharpe AAF, Lathrop, CA
	Army Control Tower	Lawson AAF, Ft Benning, GA
	Army Control Tower	Libby AAF, Ft Huachuca, AZ
	Army Control Tower	Polk AAF, Ft Polk, LA
	Army Control Tower	Michael AAF, Dugway, UT
	Army Control Tower	Fritzsche AAF, Ft Ord, CA
	Army Reserve Operations	St Paul Downtown Airport, Minn
	National Guard Operations	Shelbyville Municipal Airport, IN
	National Guard Operations	Rapid City Regional Airport, SD
	National Guard Operations	Bangor Int'l Airport, ME
	National Guard	Acadiana Regional Airport, LA
	National Guard Operations	Boise Air Terminal, ID
41.60	Army Base Operations	West Bend Municipal Airport, WI
	National Guard Operations	Dane County Regional Airport, WI
41.65	Army Control Tower	Felker AAF, VA
	National Guard	Los Alamitos NAS, CA
41.70	Army Control Tower	McCoy AAF, WI
	National Guard	Forbes ANGB, KS
41.75	Army Control Tower	Mackall AAF, NC
41.80	National Guard	Stockton Municipal Airport, CA
41.85	National Guard	Abrams Municipal Airport, MI
41.90	Air Force "Nightstalker Recovery"	Vandenburg AFB, CA
	National Guard Operations	Bradley Int'l Airport, CT
41.93	Marine Corp	Camp Pendleton, CA
41.95	Marine Corp	MCAS Santa Ana, CA
42.00	NASA	Kennedy Space Center, FL
	National Guard Operations	O'Sullivan AAF, CA
43.70	Army Control Tower	Ft Rucker, AL
44.60	Army Base Operations	Bush Field, Augusta, GA
44.70	Army Control Tower	Blackstone AAF, Ft Picker, VA
44.75	Army Rangers Medical Corps	Dahlanega, GA
45.30	Army Military Police	Nationwide
46.65	National Guard	Concord Municipal Airport, NH
46.70	Army Reserve Operations	Paine Field, WA
	National Guard	Jefferson City Municipal Airport, MO
46.80	National Guard Operations	Springfield Municipal Airport, MO
	National Guard	Dallas NAS, TX
46.90	Army Weapons Range	McCoy AAF, WI
	Army Operations	Johnson County Airport, Olath, KS
	National Guard	Mudron Heliport, Lexington, OK
47.00	Army Control Tower	McCoy AAF, WI
47.90	Army Control Tower	Henry Post AAF, Ft Sill, OK
	National Guard	Hollaman Field, NM
48.70	Marine Corp	Bogue MCALF, NC
49.20	National Guard	Miller AAF, MN
49.65	Army Medivac Operations	Ft Benning, GA
49.70	Army Emg Ordinance Disposal	Nationwide
	Army Control Tower	Henry Post AAF, Ft Sill, OK
49.80	Army Nuclear Accident Team	Nationwide
	National Guard Operations	Bismark Municipal Airport, ND

FREQ-MHz	USER	LOCATION
49.80	Army Control Tower	Sack AAF, Ft Drum, NY
	National Guard Operations	Smyrna, TN
49.83	NASA	Nationwide
49.90	National Guard	Reno, NV
49.95	National Guard Operations	Rowan County, NC
	National Guard Operations	Raleigh Durham Airport, NC
	National Guard Operations	Winston Salem Regional Airport, NC
121.5 AM	Defense Nuclear Agency	Johnston Island (Security Police)
121.5	International Distress	
122.9	Civil Air Patrol-Search & Rescue	Nationwide
123.1	Civil Air Patrol-Search & Rescue	Nationwide
123.15	Flight Testing	Nationwide
123.20	Flight Testing	Nationwide
123.25	Flight Testing	Nationwide
123.30	Flight Testing	Nationwide
123.35	Flight Testing	Nationwide
123.40	Flight Testing	Nationwide
123.45	Flight Testing	Nationwide
123.50	Flight Testing	Nationwide
123.55	Flight Testing	Nationwide
126.2	Air Force-Army-Navy	Nationwide (Control Tower Channel)
138.15	Nike Missile Site-Interbattery	Miami, FL (Primary)
138.60	Marine Corp-Fire Dept Repeater	Camp Pendleton, CA
138.72	Coast Guard	Kodiak, Alaska
138.74	Marine Corp Military Police	El Toro MCAS, CA (Freq #2)
138.78	Coast Guard	Cutter to Cutter
138.84	Naval Supply Center	Oakland, CA
138.87	Nike Missile Site-Internattery	Miami, FL (Secondary)
138.94	Marine Corp- M.P. Freq. #1	MCAS El Toro, CA
138.96	Navy Public Works Net	Nationwide
139.00	Army Emg Ordinance Disposal	Nationwide
139.05	Air Force Command Post	Patrick AFB, FL
139.175	Army Emg Ordinance Disposal	Nationwide
139.38	Nike Missile Site-Interbattery	Miami, FL
139.50	Navy Huricane Warning Net	Florida Statewide
139.545	Navy	San Diego NAS, CA
139.58	Naval Intelligence	Pentagon, Washington, DC
140.00	Navy	Amphibious Bases
140.04	Navy Security	Training Centers
140.10	Marine Corp Crash Crews	Nationwide
	Coast Guard	Kodiak, Alaska
140.16	Navy Fallout Shelters	Oakland, CA
140.22	Navy Crash & Fire Net	Nationwide
140.34	Navy	Fuel & Supply Ctr, Pt Molate, CA
140.355	Marine Corp M.P.	29 Palms Base, CA
140.40	Air Force Titan II Missiles	Little Rock AFB, Ark
	Air Force Titan II Missiles	Malmstrom AFB, MO
140.46	Navy Taxi Control	Fuel & Supply Ctr, Pt Molate, CA
140.50	Marine Corp Fire Dept	Camp Pendleton, CA
140.64	Naval Intelligence	Pentagon, Washington, DC
140.70	Navy Security Patrol	Groton Submarine Base, CT
140.76	Navy Harbor Tug Boat Net	Nationwide
140.82	Coast Guard Security Net	Kodiak, Alaska
	Navy Underwater System Ctr	New London Submarine Base, CT
141.00	Navy Security Police	Los Alamitos NAS, CA

FREQ-MHZ	USER	LOCATION
141.325	Army Criminal Inv. Division	Ft Sheridan, IL
141.48	Army Nike Missile Site	Miami, FL
141.55	Air Force Command Post	89th MAW, Andrews AFB, MD
142.325	Army Criminal Inv. Division	Ft Sheridan, IL
142.38	Nike Missile Site-Interbattery	Miami, FL
142.50	Navy Security Chan #1	Seal Beach Weapons Facility, CA
142.675	Navy	Seal Beach Weapons Facility, CA
142.68	Navy Security Chan #2	Seal Beach Weapons Facility, CA
142.86	Navy Security Police	Fuel & Supply Depot, Pt Molato, CA
	Marine Corp-M.P. & Fire	MCAS Santa Ana, CA
	Navy Security	Oakland Supply Center, CA
	Marine Corp-M.P.	MCAS El Toro, CA
	Navy Security Police	Alameda NAS, CA
143.28	Coast Guard-Auxillary Use	Cutters
143.34	Nike Missil- Sites	Miami, FL
143.715	Navy	San Diego NAS, CA
143.80	Air Force Reserve Operations	Andrews AFB, MD
143.90	Civil Air Patrol	Repeater Input to 148.15 Nationwide
146.35	Coast Guard Security	Keflavik, Iceland
148.00	Air Force Weather Sqdn	McClellan AFB, CA
148.065	Air Force Admin Net-Input	Westover AFB, MA
148.095	Air Force Civil Engr	McClellan AFB, MA
	Air Force Airfield Maint.	Edwards AFB, CA
	Air Force Missile Net F-4	Ellsworth AFB, SD (Repeater Out
148.15	Civil Air Patrol	Repeater Input to 143.90 Nationwide
148.175	Air Force Aircraft Maint.	March AFB, CA
148.185	Air Force Freq-3	Ellsworth AFB,SD (Output for 165.1875)
148.20	Air Force VIP Net	Homestead AFB, FL
148.215	Air Force Aircraft Maint.	McClellan AFB, CA
148.225	Air Force Flight Line Maint.	Patrick AFB (Cape Kennedy) FL
148.245	Air Force Missile Net F-3	Ellsworth AFB,SD (Repeater Out for 165.1125)
148.275	Air Force Pagers	Patrick AFB, FL
148.29	Coast Guard Security	Attu, Alaska
	Navy Public Works Net	Great Lakes, IL
148.30	Marine Corp Chan. #4	Camp Pendleton, CA
148.35	Navy Security Police	Nationwide
148.355	Marine Corp-Taxi Net	MCAS El Toro, CA
148.40	Air Force Weather Sqdn	McClellan AFB, CA
148.455	Air Force Missile Net F-2	Ellsworth AFB, SD (Repeater Out for 165.1375)
	NASA Crawler Operations	Kennedy Space Center, FL
148.485	Air Force Maintence	McClellan AFB, CA
	Air Force Weapons Range Ctl	Edwards AFB, CA
	Air Force Missile Net F-1	Ellsworth AFB, SD (Repeater Ou for 165.0125)
148.50	Air Force VIP Net	Homestead AFB, FL
148.515	Air Force Maintence Group	McClellan AFB, FL
148.545	Air Force Admin, Net Input	Pease AFB, NH
	Air Force Weather Sqdn	McClellan AFB, CA
148.55	Air Force SAMSO	Los Angeles AFS, CA
148.635	Nike Missile Site	Miami, FL (Hurricane Net)
	Army Corp of Engrs	Miami, FL
148.905	Air Force Fuel Trucks	Edwards AFB, CA
149.01	Navy Security Police	Key West Naval Base, FL
149.09	Marine Corp-M.P.	Camp Pendleton, CA
149.15	Air Force Maintence E-Net	Homestead AFB, FL
149.175	NASA Crawler Operations	Kennedy Space Center, FL
	Air Force Missile Operations	Minot AFB, ND

FREQ-MHz	USER	LOCATION
149.205	Air Force Security F-1	Los Angeles AFS, CA
	Air Force Maintence Net	Westover AFB, MA (RCVE Only)
	Air Force Taxi Net	McClellan AFB, CA
149.225	Air Force Missile Maintence	Site D, Ellsworth AFB, SD
149.265	Air Force Aircraft Maint,	Mather AFB, CA
	Air Force Security Police	Whiteman AFB, MO
149.275	Air Force Missile Sites	Ellsworth AFB, SD (paired 148.095)
149.335	Navy Amphibious Bases	Nationwide
149.37	Navy Weapons Range	Nationwide
	Navy Public Works Net	Great Lakes Naval Training Center,IL
149.45	Marine Corp-Ambulances	Camp Pendleton, CA
	Navy Security Police	Great Lakes NTC, IL (Repeater Output)
149.475	Air Force Admin, Net Output	Westover AFB, MA
	Air Force Supply Net	McClellan AFB, CA
149.565	Air Force Admin. Net Output	Pease AFB, NH
	Air Force Civil Engr	Edwards AFB, CA
	Air Force Admin. Net Output	Mather AFB, CA
149.575	Air Force Security Police	Mather AFB, CA
149.91	Army Civil Disturbance Net	Nationwide
	113th Military Intelligence	Evanston, Illinois
149.925	Air Force M.P. Dispatch	Edwards AFB, CA
149.97	Navy	Key West Naval Base, FL
149.985	Air Force Maintence Net	Edwards AFB, CA
150.07	Navy Security Police	Nationwide
150.072	Navy Security Police	Nationwide
150.075	113th Military Intelligence	Evanston, IL
150.09	Navy Transport Net	Supply Center, Oakland, CA
	Marine Corp Operations	29 Palms Base, CA
150.10	Navy Hospital Dial Pager	Great Lakes NTC, IL
150.105	Navy Security Police	Mirimar NAS, CA
150.205	113th Military Intelligence	Evanston, IL
150.225	Air Force Admin. Net Output	McClellan AFB, CA
150.285	Air Force Base Operations	McClellan AFB, CA
150.345	Dept of Defense Cargo Ops	Memphis, TN
150.39	Navy Communications Stations	Nationwide
150.475	Army Warfare Training Ctr	Ft Greeley, Alaska (System 2)
150.55	Army Warefare Training Ctr	Ft Greeley, Alaska (System 2)
150.675	115th Military Intelligence	Portland, OR
150.69	113th Military Intelligence	Evanston, IL
150.705	Army (AAF241)	Chicago, IL
	113th Military Intelligence	Evanston, IL
162.0125	NASA Missile Barges	Kennedy Space Center, FL
162.025	BIA Haskell Indian College	Lawrence, KS
	NASA Jet Propulsion Lab	Pasadena, CA
162.075	NWS Data Exchange	Miami, FL
162.10	FAA Repeater Output	St Croix, VI
162.225	USPO Dispatch	Los Angeles, CA
	USPO Transport Units	Mt Disappointment, CA
	USPO Bulk Mail Center	Forest Park, IL
162.25	VA Hospital	Long Beach, CA
162.275	VA Hospital-Pager	Manchester, NH
162.30	FAA Repeater	St Croix, VI
162.40	NWS F-1	Nationwide
162.475	NWS F-3	Nationwide
162.50	FAA Hurricane Net	Miami, FL
	FAA IFSS	San Juan, PR
162.55	NWS F-2	Nationwide
162.6125	NASA	Edwards AFB, CA
	Air Force Security Police	Kirkland AFB, NM

FREQ-MHZ	USER	LOCATION
162.6125	NASA Launch Support Net	Kennedy Space Center, FL
	NASA Jet Propulsion Lab	Pasadena, CA
162.6375	Air Force Security Police	Kirkland AFB, NM
162.6625	VA	Nationwide
162.8125	Air Force	Nationwide
162.85	VA Hospital	Westwood, CA
163.00	Defense Nuclear Agency	Manzano Base, NM (Security)
	VA Hospital Pager (KEK339)	Butler, PA
	VA Hospital Pager	Memphis, Tn
	National Guard	Chicago, IL (Output for 163.4575)
	USPO Vehicle Dispatch	Kansas City, MO
163.025	Army Corp of Engrs	Nationwide (Simplex & Output for 163.5875)
163.075	GSA	Nationwide
163.075	ERDA (KEL222)	Hickam AFB, HI (Paired with 166.275)
163.125	BIA	Nationwide
163.25	VA Hospital (KFX848)	Becksville, VA
163.30	FAA IFSS	San Juan, PR
163.375	ERDA (KEB883)	Los Alamos, NM
	USPO (KQK840)	Pasadena, CA
	USPO (KTM447) Maintence	Chicago, IL
163.4125	Army Corp of Engr Disaster Net	Statewide Florida
	Army Corp of Engrs-Simplex	Great Lakes NTC, IL
163.4375	Army Cor of Engrs Disaster Net	Statewide Florida
	Army Corp of Engrs-Dams	Los Angeles, CA
163.4575	National Guard	Chicago, IL (Input to 163.00)
163.4625	Air Force Security Police	Academy, Colorado Springs, Co
	NASA Security Police	Kennedy Space Center, FL
	Air Force Security Police	Castle AFB, CA
	Air Force Security Police	March AFB, CA (Freq. #1)
	Air Force Security Police	Travis AFB, CA
	Air Force Security Police	Vandenburg AFB, CA
	Air Force Maintence Ctl	Edwards AFB, CA
163.4875	Air Force Security Police	Patrick AFB, FL
	Air Force Security Police	Edwards AFB, CA
	Air Force Security Police	George AFB, CA
	Air Force Security Police	Hamilton AFB, CA
	Air Force Security Police	March AFB, CA
	Air Force Security Police	McClellan AFB, CA
	Air Force Security Police	Mt Laguna AFS, CA
	Air Force Security Police	Norton AFB, CA
	Air Force Security Police	Pease AFB, NH
	Air Force Security Police	Vandenburg AFB, CA
	Air Force Security Police	Westover AFB, MA
	Air Force Security Police	O'Hare AFS, IL
163.5125	Air Force Security Police	Beale AFB, CA
	Air Force Security Police	George AFB, CA
	Air Force CID	Homestead AFB, FL
	Air Force CID	Los Angeles AFS, CA
	Air Force Security Police	Norton AFB, CA
	Air Force CID	Vandenburg AFB, CA
163.5375	Army M.P. (Secondary)	Ft Stewart, GA
	Army M.P.	Oakland, CA
	Army M.P.	Ft MacArthur, CA
	Army Corp of Engrs	Nationwide
	Army Security Police	Joliet Ammo Plant, IL
	Air Force Maintence	Edwards AFB, CA
163.5625	Army Transport Units	Ft Gordon, GA
	Army Transport Units	Sunflower Ammo Plant, DeSoto, KS
	Air Force VIP Net	Mather AFB, CA

FREQ-MHZ	USER	LOCATION
163.5625	Army Taxi Net (AFF215)	Ft Sheridan, IL
	Army Corp of Engrs	Nationwide
	Air Force (Repeater)	Crestline, GA
163.5875	Air Force Disaster Net	McClellan AFB, CA
	Air Force Security Police	Norton AFB, CA
	Air Force Security Police	Peterson AFB, CO
	Air Force Disaster Net	Vandenburg AFB, CA
	Air Force Emg Ordinance Disposal Net	Edwards AFB, CA
	Army Corp of Engrs	Nationwide (Repeater Input to 163.025)
164.025	NOAA National Ocean Survey	Land & Mobile (Paired with 164.075)
164.05	FAA	Eastern United States
164.075	NOAA National Ocean Survey	Land & Mobile (Paired with 164.025)
164.100	Army Base Delivery	Ft Leavenworth, KS
	NASA	Edwards AFB, CA
164.175	VA Hospital	Wadsworth, Van Nuys, CA
	VA	Kansas City, MO
	VA Westside Hospital	Chicago, IL (Dial Pager KLB813)
164.20	Army Corp of Engrs	Joliet, IL
164.225	NASA Lewis Research Ctr	Cleveland, OH
	ERDA Dial Pager	Livermore Labs, CA
	ERDA "Progress"	Tampa, FL
	ERDA Security Police (KID442)	Argonne Nat'l Lab, IL
	ERDA	Savanah River Plant
164.275	ERDA (KA8304)	Batavia Lab, IL
164.30	Air Force Reserve	Greater Peoria Airport, IL
	Coast Guard Security	Nationwide
164.325	ERDA (KFW692)	Batavia Lab, IL
164.35	ERDA (KAJ982)	Batavia Lab, IL
164.375	ERDA Chan #4	Srgonne Nat'l Lab, IL
164.45	EPA	Nationwide
164.50	VA Hospital Pager	New York, NY
	Nat'l Sce Studies Lab	Norman, OK
	USPO Transport Units	Miami, FL
164.70	US Information Agency	Worldwide
	USPO	Kansas City, MO
	VA Hospital Pager	Boston, MA
	VA Research Hospital Pager	Chicago, IL (KLB812)
164.75	ERDA	Argonne Nat'l Lab, IL
164.9125	USPO Transport Units	Nationwide
164.9625	USPO Air Mail Facility	Los Angeles, CA (Repeater Output)
164.9875	Coast Guard Air Traffic Fac.	Mobile Air Station, AL
	Air Force	Scott AFB, IL
	Army Fire Dept (AAF275)	Rock Island Arsenal, IL
	USPO (KUK226) Marshalling	Chicago, IL
165.0125	Air Force Missile Net F-1	Ellsworth AFB, SD (Input to 148.485)
	Air Force	Los Angeles AFS, CA
	Air Force	Norton AFB, CA
	Air Force	Vandenburg AFB, CA
165.0375	Air Force Maintence Net	Westover AFB, MA (XMIT)
	Air Force Maintence Bet	Norton AFB, CA (Output)
	Army Corp of Engrs	Nationwide
165.0625	Army Military Intelligence	Ft Stewart, GA
	Army Hospital	Ft Gordon, GA
	Army M.P.	Hunter Field, Savanah, GA
	Army Security Police (AAC540)	Ravenna Arsenal, OH
	Navy Security Police	Long Beach, CA
	Army M.P. (AAG331)	Ft MacArthur, CA
	Army Corp of Engrs	Nationwide
	Dept of Defense Security	DOD Depot, Memphis, TN

FREQ-MHZ	USER	LOCATION
165.0875	Army Fire Dept	Ft Gordon, GA
	Navy	San Diego, CA
	Walter Reed Medical Ctr	Washington, DC (Police & Fire)
	Army M.P. (AAF210)	Ft Sheridan, IL
165.1125	Air Force Missile Net F-3	Ellsworth AFB, SD (Input to 148.245)
	Air Force VIP Net Output	McClellan AFB, CA
	Air Force VIP Net Output	George AFB, CA
	Air Force VIP Net Output	Ontario AFS, CA
	Air Force VIP Net Output	Vandenburg AFB, CA
165.1375	Air Force	O'Hare AFS, IL
	Air Force Base Operations	Mather AFB, CA
	Air Force Missile Net F-2	Ellsworth AFB, SD (Input to 148.455)
	Air Force Maintence Chan#A	Pease AFB, NH
	Air Force Security Police	Otis AFB, MA
	Air Force Base Operations	Norton AFB, CA
	FAA	Kirkland AFB, NM
165.1625	Air Force	March AFB, CA
	Air Force	Vandenburg AFB, CA
	Air Force Missile Net F-4	Ellsworth AFB, CA (Input to 148.095)
	Air Force Maintence Net	Mather AFB, CA
165.1875	Army M.P.	Ft McPherson, GA
	Air Force Missile Net F-3	Ellsworth AFB, SD (Input to 148.185)
	Air Force Maintence Chan#B	Pease AFB, NH
	FAA	Kirkland AFB, NM
	Army Corp of Engrs	Nationwide
165.2125	Coast Guard Security	Nationwide
165.2625	Coast Guard Security	Nationwide
	Air Force Aircraft Maintence	Mather AFB, CA
165.3125	Coast Guard Intelligence	Nationwide
165.3375	Coast Guard Intelligence	Nationwide
165.50	FAA	St Thomas, VI
165.6125	United Nations Security	New York, NY
165.70	FAA	San Juan, PR
165.825	CIA Security Police	Langley, VA
	CIA Security Police	San Diego, CA
165.975	National Park Service	Nationwide
166.10	FAA IFSS	St Croix, VI
	Air Force Base Ops	Richards-Gebauer AFB, MO
	FAA IFSS	San Juan, PR
	FAA	Ft Buchanan
	FAA	Hawthorne, CA
	United Nations Security	New York, NY
166.175	FAA Point to Point	Nationwide
	FAA	O'Hare Int'l Airport, IL
166.20	VA Hospital Security	Manchester, NH
	VA Hospital Security (KAI224)	North Chicago, IL
166.275	ERDA (KEL222)	Hickam AFB, HI (Paired with 163.075)
166.30	National Park Service	Lake Meade, NV
166.325	National Park Service	Indiana Dunes Nat'l Park, IN (Repeater Out)
166.375	USPO Air Mail Facility	O'Hare Int'l Airport, IL (KLB401)
166.4875	Bureau of Land Mgmt	Bishop, CA (Repeater)
166.525	GSA	Nationwide
166.6125	US Information Agency	Worldwide
166.925	National Park Service-Police	Washington, DC (KGB788)
167.05	Federal Communications Comm.	CB Strike Force-Nationwide
167.075	National Park Service	Nationwide
167.125	BIA	Nationwide
167.175	National Park Service	Nationwide

FREQ-MHz	USER	LOCATION
167.6875	Army	Ft Carson, CO
167.825	ERDA	Argonne Nat'l Lab, IL
167.85	ERDA	Batavia Lab, IL
167.875	NASA	Nationwide
167.925	ERDA Chan. #7	Argonne Nat'l Labs, IL
167.975	ERDA Chan. #8 (KDC573)	Argonne Nat'l Labs, IL
168.00	Air Force Medical Net	March AFB, CA (Output)
	Air Force Medical Net	McClellan AFB, CA (Output)
168.225	FSI Security Project	Arlington, VA
168.45	Nuclear Regulatory Comm.	Arlington, VA (Paired with 411.20)
168.45	ERDA (KG6282)	Argonne Nat'l Lab, IL
168.525	VA Hospital	San Diego, CA
	VA Hospital Security	Memphis, TN
	VA Hines Hospital	Maywood, IL
	VA Hospital	Seattle, WA
	VA Hospital	West Los Angeles, CA
169.00	USPO Investigators (KRO617)	Los Angeles, CA (Repeater In for 169.85)
169.025	Environmental Research Lab	Miami, FL
169.0375	Smithsonian Institution	Washington, DC (Security Chan #2)
169.175	National Park Service-Fire Lab	Riverside, CA
169.20	Smithsonian Institution	Washington, DC (Security Chan #1)
	VA Hines Hospital Security	Maywood, IL (KLB817)
169.30	FAA IFSS	San Juan, PR
169.325	Air Force VIP Net	Travis AFB, CA
169.40	Bureau of Land Mgmt-Admin.	Bridgeport, CA
169.425	Army Corp of Engrs	Statewide Florida
169.425	Army Corp of Engrs	Nationwide
169.45	Army Corp of Engrs	Nationwide
169.85	USPO Investigators (KRO617)	Los Angeles, CA (Rep. Output for 169.00)
169.95	ERDA	Nationwide (Feed by 416.30)
169.975	National Park Service Fire Lab	Riverside, CA
170.125	USPO	Los Angeles, CA
170.15	NASA Base Communications	Kennedy Space Center, FL
170.20	NOAA Nat'l Ocean Survey	Land Use
170.35	NASA Astronauts & VIP Net	Kennedy Space Center, FL
170.35	Bureau of Prisons	Terminal Island, CA
170.725	FAA	St Thomas, VI
170.875	Bureau of Prisons	Nationwide
171.00	NASA	Nationwide
171.025	Army Corp of Engrs	Statewide Florida
171.15	NASA	Nationwide
171.20	ERDA (KDC572)	Argonne Nat'l Lab, IL (Paired 171.95)
171.2375	Coast Guard Security	Nationwide
	Coast Guard Public Works Net	Coast Guard Academy, CT
171.2625	USPO (KRB200)	Chicago, IL
171.3125	Coast Guard Intelligence	Nationwide
171.3375	Coast Guard Intelligence	Nationwide
171.3875	VA Research Hospital (KLB812)	Chicago, IL
171.80	NOAA National Ocean Survey	Land Use
171.3625	Coast Guard Security	Nationwide
171.95	ERDA (KDC572)	Argonne Nat'l Lab, IL (Paired 171.20)
172.025	National Park Service	Yosemite Park, CA (Rep. Input to 172.65)
172.05	Federal Communications Comm.	Strike Force Repeater Output-Nationwide
172.10	FAA IFSS	San Juan, PR
172.30	Coast Guard Intelligence	Boston, MA
172.525	National Park Service	Nationwide Repeater Output
172.65	National Park Service	Yosemite Park, CA (Rep. Output to 172.025)

FREQ-MHZ	USER	LOCATION
172.775	National Park Service-Rangers	Nationwide
172.80	Federal Communications Comm.	Los Angeles, CA (Repeater)
172.85	FAA	Eastern United States
172.90	FAA	El Yonque (Repeater)
172.95	FAA	Eastern United States
173.025	Air Force VIP Net	Edwards AFB, CA
173.075	Coast & Geodetic Survey	Nationwide
173.10	National Severe Studies Lab	Norman, OK
173.325	Army Fire Dept	Ft Huachuca, AZ
173.4125	Army	San Pedro, CA
	Army M.P.	Ft Ord, CA
	Army M.P.	Presideo of Monterey, CA
	Air Force Crash & Fire Net	Westover AFB, MA
	Army M.P.	Ft Huachuca, AZ
	Army M.P.	Presideo of San Francisco, CA
	Air Force Launch Control	Edwards AFB, CA
	Army (AAF218)	Ft Sheridan, IL
173.4375	Air Force Crash & Fire Net	McClellan AFB, CA
	Air Force Civil Engr	Pease AFB, NH
	Air Force 928 TAG Admin Net	O'Hare AFS, IL
173.4625	Army Fire Dept	Presidio of San Francisco, CA
173.4875	Army Fire Dept	Ft Stewart, GA
	Air Force Flight Surgeon	Edwards AFB, CA (Repeater Output)
	Army (AAF211)	Ft Sheridan, IL
173.5125	Army Security Police	Sunflower Ammo Plant, De Soto, KS
	AIr Force	March AFB, CA (Repeater Output)
173.5375	Air Force Aircraft Maint.	McClellan AFB, CA
	Air Force Civil Engr	Westover AFB, MA
	Air Force	Norton AFB, CA
	Air Force Medical Net	Vandenburg AFB, CA
173.5625	Air Force Fire Rescue Chan#1	Kennedy Space Center, CA
	Air Force Fire Net	Peterson AFB, CO
	Air Force	George AFB, CA
	Air Force	Norton AFB, CA
	Air Force	Ontario AFS, CA
	Air Force Medical Net	Pease AFB, NH
173.5875	Air Force Fire & Crash Crews	Richards-Gebauer AFB, MO
	Air Force Fire Crew	Buckley AFB, CO
	Air Force Fire Crew	Lowrey AFB,CO
	Air Force Fire & Crash Crew	Andrews AFB, MD (Red Control)
	Air Force Fire & Crash Crew	Edwards AFB, CA
	Air Force Crash & Fire Crews	Vandenburg AFB, CA
	Air Force Crash & Fire Crews	Ontario AFS, CA
	Air Force Fire & Crash Crews	Norton AFB, CA
	Air Force Fire & Crash Crews	George AFB, CA
	Air Force Crash Net	Otis AFB, MA
173.6125	Air Force Security Police	Ontario AFS, CA
	NASA	Nationwide
173.6375	NASA	Nationwide
173.6625	Air Force Crash Net Ch.#2	Kennedy Space Center, FL
173.6875	NASA Security Police	Kennedy Space Center, FL
173.7375	NASA	Nationwide
173.7875	NASA	Nationwide
173.7875	Air Force Crash & Fire Net	MacDill AFB, FL
173.90	FAA	El Yonque (Repeater)
174.625	Dept of Defense-Taxi Net	Memphis, TN
236.6 AM	Air Force Control Tower Ch.#1	Nationwide
237.9	Coast Guard Air to Air Homing	Nationwide

FREQ-MHz	USER	LOCATION
240.6	Coast Guard Primar Search & Rescue Datum Beacon	
241.1	Air Force Control Tower Ch.#2	Nationwide
243.0	International Distress	
250.8	Navy Blue Angels	Pensacola NAS, FL
257.8	Air Force-FAA Liaison Freq.	Nationwide
275.1	Coast Guard Secondary Search & Rescue Datum Beacon	
275.2	McDonnell Douglas Aircraft	Long Beach, CA (KAK6)
	McDonnell Douglas Aircraft	Palmdale, CA (KNU6)
275.8	Air Force UHF Ground Control	Nationwide (Primary Frequency)
277.8	Navy Fleet Warning System	Worldwide
282.8	Coast Guard-Search & Rescue	Nationwide
283.5	Air Force Thunderbirds Ch.2	Nationwide
291.8	Boeing Aircraft Co-Tests	Fairchild AFB, WA
292.1	Air Force Control Tower	Nationwide Channel #1
295.7	Air Force Thunderbirds Ch.1	Nationwide
305.4	Air Force Direction Finding	Nationwide
311.0	Strategic Air Command	Nationwide
321.0	Strategic Air Command	Nationwide
349.4	Air Force Control Tower	Nationwide Channel #2
360.2	Air Force Control Tower	Nationwide Channel #5
381.3	Tactical Air Command	Nationwide
401.752	Army Corp of Engrs	Satellite data link
401.782	Army Corp of Engrs	Satellite data link
406.60	ERDA	Batavia Lab, IL
406.9375	Army Corp of Engrs	Statewide Florida
406.975	Army Criminal Inv. Division	San Pedro, CA
407.225	Air Force Missile Supply Net	Whiteman AFB, MO
407.2375	Army Corp of Engrs	Statewide Florida
407.425	Air Force Command Post	Andrews AFB, MD
407.625	Coast Guard Intelligence	Nationwide
407.925	Coast Guard Intelligence	Nationwide
407.975	Coast Guard Security	Nationwide
408.025	USPO Transport Units	Chicago, IL (KWG285)
409.125	Air Force	Mather AFB, CA
409.825	Coast Guard Security	Nationwide
410.80	ERDA (KCI797)	Batavia Lab, IL
411.20	Nuclear Regulatory Comm	Arlington, VA (Paired with 168.45)
411.60	ERDA Transport Units	Nationwide
412.50	Naval Prision Security	Alameda NAS, CA
412.75	ERDA Transport Units	Nationwide
412.8375	Army Corp of Engrs	Statewide Florida
412.95	Army M.P.	Oakland, CA
413.00	Air Force Security Police F-1	Andrews AFB, MD
413.275	Air Force Security Police F-2	Andrews AFB, MD
413.45	Strategic Air Command	Nationwide-Command Post Alert Receivers
413.524	Air Force Freq-1	Malstrom AFB, WY
413.5625	Army Corp of Engrs	Statewide Florida
413.925	Coast Guard Security Police	Akamada NAS, CA
415.20	GSA Federal Protective Sce	Miami, FL (KLE409)
	GSA Federal Protective Sce	Chicago, IL (Repeater Output)
415.775	Coast Guard Security	Nationwide
415.925	Coast Guard Security	Nationwide
416.30	ERDA	Nationwide (Paired 169.95)
416.775	USPO	Nationwide
416.85	Coast Guard Security	Nationwide
417.00	Coast Guard Security	Nationwide
417.20	GSA Federal Protective Sce	Miami, FL
	GSA Federal Protective Sce	Kansas City, MO
418.30	USPO	Chicago, IL

FREQ-MHz	USER	LOCATION
419.125	Coast Guard Security	Nationwide
419.35	Navy Fire Dept	Mirimar NAS, CA

NOTICE:

Those stations listed as VIP Net somethimes use telephone patch facilities. In some lists these stations are referred to as Commanders Net. In addition the Admin. Net is used for similar purposes. Fir facilities that have Aircraft, a fire department will also provide Crash and Ambulance functions. The Emg. Ordinance Disposal listings are units that take care of bomb disposal. Some of the Nuclear Accident Team frequencies may be used for EOD purposes and some of the EOD frequencies may be used for Nuclear Accident purposes.

No federal law enforement frequencies are included in this list, because of this authors policy of not making such frequencies available to the public, due to the possible harm which could arise.

CID units are Criminal Investigation Units whose duties include those similar to a Police Detective Bureau. M.P.'s on the other hand perform mostly Patrol functions. The same is true of Security Police.

Those listings which list the location as Nationwide indicate that this type of user can be located anywhere within the U.S. or its Territory.

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FREQ-MHz	CALL SIGN	USER
164.780		Ontario Dept of Highways, Motorist Aid
169.510		Edmonton Police, Downtown
169.515		Edmonton Police, Downtown
169.520		Edmonton Police, Downtown
169.535		Edmonton Police, Downtown
169.540		Edmonton Police, South
172.770	CJY569	Radio Station CHIN, Toronto, Ontario
453.900		Edmonton Police, South
453.905		Edmonton Police, South
453.910		Edmonton Police, South
		Edmonton Police, North
453.920		Edmonton Police, North
453.935		Edmonton Police, North
453.940		Edmonton Police, East
453.945		Edmonton Police, East
453.950		Edmonton Police, East
453.955		Edmonton Police, West
458.125		Essex Police
461.975		Edmonton Police, West
461.995		Edmonton Police, West
463.690		Edmonton Fire Dept
467.305		Edmonton Police, West
469.937		Windsor Fire Dept (Repeater)

HOSPITAL AND AMBULANCE ASSIGNED FREQUENCY LIST

The following frequencies are used by Paramedics to communicate between their Ambulance and the hospital medical staff, for treatment in the field. A remote repeater between a field location and the ambulance is used so that they can talk to the hospital from any location within one mile of the ambulance.

HOSPITAL FREQUENCY	FREQUENCY NAME	PARAMEDIC FREQUENCY
463.000	MED 1	468.000
463.025	MED 2	468.025
463.050	MED 3	468.050
463.075	MED 4	468.075
463.100	MED 5	468.100
463.125	MED 6	468.125
463.150	MED 7	468.150
463.175	MED 8	468.175

The following are the frequencies used by the remote repeater for Paramedic use

150.775
150.790
458.025
458.075
458.125
458.175

The following frequencies are used for dispatching ambulances by hospitals

BASE		MOBILE
462.925	Dispatch 1	467.925
462.975	Dispatch 2	467.975
460.525	-	465.525
460.550	-	465.550

MERCY NET

155.325	Ambulance to Hospital
155.34	Hospital to Hospital
155.355	Ambulance to Hospital
155.385	Ambulance to Hospital
155.400	Ambulance to Hospital

PAGING-HOSPIALS

35.64	157.45
35.68	162.6625
43.64	163.25
43.68	
152.0075	

OTHER MEDICAL AND HOSPITAL USE FREQUENCIES

AMBULANCE & MOBILE TO BASE

33.02	47.46	155.25
33.04	47.50	155.265
33.06	47.54	155.28
33.08	47.58	155.295
33.10	47.62	
37.90	155.16	
37.94	155.175	
37.98	155.205	
46.00	155.22	
46.04	155.235	

AMERICAN RED CROSS

47.42

SEARCH & RESCUE USE

155.16

RAILROADS

Railroads use communications between their train crews and repair & dispatch centers. Allocations are made on a nationwide basis. Below is a list of each allocated channel along with its channel number.

Primary Channel	Mhz	Tertiary Channel	Mhz
1	160.23	1 T	160.215
2	160.260	2 T	160.245
3	160.29	3 T	160.275
4	160.32	4 T	160.305
5	160.35	5 T	160.335
6	160.38	6 T	160.365
7	160.41	7 T	160.395
8	160.44	8 T	160.425
9	160.47	9 T	160.455
10	160.50	10T	160.485
11	160.53	11T	160.515
12	160.56	12T	160.545
13	160.59	13T	160.575
14	160.62	14T	160.605
15	160.65	15T	160.635
16	160.68	16T	160.665
17	160.71	17T	160.695
18	160.74	18T	160.725
19	160.77	19T	160.755
20	160.80	20T	160.785
21	160.83	21T	160.815
22	160.86	22T	160.845
23	160.89	23T	160.875
24	160.92	24T	160.905
25	160.95	25T	160.935
26	160.98	26T	160.965
27	161.01	27T	160.995
28	161.04	28T	161.025
29	161.07	29T	161.055
30	161.10	30T	161.085
31	161.13	31T	161.115
32	161.16	32T	161.145
33	161.19	33T	161.175
34	161.22	34T	161.205
35	161.25	35T	161.235
36	161.28	36T	161.265
37	161.31	37T	161.295
38	161.34	38T	161.325
39	161.37	39T	161.355
40	161.40	40T	161.385
41	161.43	41T	161.415
42	161.46	42T	161.445
43	161.49	43T	161.475
44	161.52	44T	161.505
45	161.55	45T	161.535
46	161.58	46T	161.565
47	452.90	47m	457.900
48	452.925	48m	457.925
49	452.95	49m	457.950

TELEPHONE COMPANY MOBILE TELEPHONE

Base Frequency MHz	Mobile Frequency MHz	Channel Number
35.26	43.26	ZO
35.30	43.30	ZF
35.34	43.34	ZH
35.38	43.38	ZM
35.42	43.42	ZA
35.46	43.46	ZY
35.50	43.50	ZR
35.54	43.54	ZB
35.62	43.62	ZW
35.66	43.66	ZL
152.51	157.77	JL
152.54	157.80	YL
152.57	157.83	JP
152.60	157.86	YP
152.63	157.89	YJ
152.66	157.92	YK
152.69	157.95	JS
152.72	157.98	YS
152.75	158.01	YR
152.78	158.04	JK
152.81	158.07	JR
454.375	459.375	QC
454.400	459.400	QJ
454.425	459.425	QD
454.450	459.450	QA
454.475	459.475	QE
454.500	459.500	QP
454.525	459.525	QK
454.550	459.550	QB
454.575	459.575	QO
454.600	459.600	QR
454.625	459.625	QY
454.650	459.650	QF
35.22	Pager	LC
35.58	Pager	LF
43.22	Pager	LT
43.58	Pager	LP
158.10	Pager	-

AIRCRAFT MOBILE TELEPHONE

Base Freq-MHz	Mobile Freq-MHz	Channel Number
454.675	459.675	Calling Freq
454.700	459.700	6
454.725	459.725	7
454.750	459.750	5
454.775	459.775	8
454.800	459.800	4
454.825	459.825	9
454.850	459.850	3
454.875	459.875	10
454.950	459.950	1
454.975	459.975	12

RADIO COMMON CARRIER (RCC'S)

Base Frequency MHz	Mobile Frequency MHz	Channel Number
152.03	158.49	1
152.06	158.52	3
152.09	158.55	5
152.12	158.58	7
152.15	158.61	9
152.18	158.64	11
152.21	158.67	13
152.24	-	Pager
152.84	-	Pager
158.46	-	Pager
158.70	-	Pager
454.025	459.025	21
454.050	459.050	22
454.075	459.075	23
454.100	459.100	24
454.125	459.125	25
454.150	459.150	26
454.175	459.175	27
454.200	459.200	28
454.225	459.225	29
454.250	459.250	30
454.275	459.275	31
454.300	459.300	32
454.325	459.325	33
454.350	459.350	34
470.0125	476.0125	-
470.0375	476.0375	-
470.0625	476.0625	-
470.0875	476.0875	-
470.1125	476.1125	-
470.1375	476.1375	-
470.1625	476.1625	-
470.1875	476.1875	-
470.2125	476.2125	-
470.2375	376.2375	-
470.2625	476.2625	-
470.2875	476.2875	-

AIRCRAFT Continued

Base Freq-MHz	Mobile Freq-MHz	Channel Number
454.900	459.900	2
454.925	459.925	11

FREQ.-MHz	CALL SIGN	USER
41.28		Royal Canadian Mounted Police
42.00	XJD74	Ontario Provincial Police, Aircraft
42.06	XJV66	Ontario Provincial Police, Base & Mobile Units
42.22	XJB77	Ontario Provincial Police, Automobiles & Motorcycles
42.54		Ontario Provincial Police
49.12		Royal Canadian Mounted Police
138.015		Windsor City Police, Mobile Only
138.195		Windsor City Police, Mobile Only
138.750		Windsor City Police, Mobile Only
138.855		Windsor City Police, Mobile Only
140.190	XJO45	Royal Canadian Mounted Police Channel #1
140.310		Royal Canadian Mounted Police Channel #2
140.430		Windsor Area Vice Patrols
140.490		Royal Canadian Mounted Police
142.035		Windsor City Police, Channel #1, Base Output
142.035	XJF72	Toronto Metro Police, Computer Chan #1
142.065	XJF72	Toronto Metro Police, Computer Chan #2
142.125	XJF72	Toronto Metro Police, Computer Chan #3
142.155	XJF72	Toronto Metro Police, Computer Chan #4
142.185	XJK343	Durham Regional Police
142.215	XJG62	Windsor City Police, Channel #2, Information
142.305	XJF72	Toronto Metro Police, Computer Chan #5
142.335	XJF72	Toronto Metro Police, Computer Chan #6
		Sandwich West Police & Amhertsburg Police
142.485		Hamilton Police
142.500		York Regional Police
142.620	XJK343	Durham Regional Police
142.635		Hamilton Police
142.695	XJF72	Toronto Metro Police, Computer Chan #7
		Hamilton Police
142.725	XJF72	Toronto Metro Police, Computer Chan #8
142.770		London Police
142.815	XJK343	Durham Regional Police
142.845		Hamilton Police
142.875	XJF72	Toronto Metro Police, Computer Chan #9
		London Police
	XJG62	Windsor City Police, Chan #3, Detectives
142.905	XJF72	Toronto Metro Police, Computer Chan #10
142.965	XJF72	Toronto Metro Police, Computer Chan #11
142.995	XJF72	Toronto Metro Police, Computer Chan #12
143.085	XJF359	Hamilton/Wentworth Regional Police
148.495	XJF72	Toronto Metro Police, Division #2
148.855	XJF72	Toronto Metro Police, Division #1
149.080	XVJ241	Operation "Bigfoot"
149.170	XNC888	Windsor Ambulance, Chan #2
149.350	XJF72	Toronto Metro Police, L & S Units
149.410	XJJ466	Toronto Metro Ambulance, West Sector
149.470	XNF615	Brampton/Peel Ambulance, Airport Area
150.095	XNC888	Windsor Area Ambulance Chan #1
		Ontario Province Ambulance Inter-System
150.545		Radio Station CJJD, Hamilton, Ontario
150.680		Radio Station CFTR, Hamilton, Ontario
	CJY731	Radio Station CFTR, Toronto, Ontario

FREQ-MHz	CALL SIGN	USER
151.145	XJI729	Peel Regional Police, South Channel
151.175	XJF933	Niagra Regional Police, Ft Erie
151.205	XJF933	Niagra Regional Police, St Catharines
151.265	XJF933	Niagra Regional Police, Information
151.325		Borough of North York, Municipal use
152.480		Bell Canada, Mobile Telephone Channel #JJ
152.840		Bell Canada, Mobile Telephone Channel #JW
152.870	CJZ243	Radio Station CBL, Toronto, Ontario
153.050	CJY33	Radio Station CKEY, Toronto, Ontario
153.335		Edmonton Fire Dept
153.770		Windsor City Fire Dept
	XJK45	East York Fire Dept
	XJG351	Richmond Hill Fire Dept
		Grimsby Fire Dept
153.830		Calgary Fire Dept
	XJI78	North York Fire Dept
	XJI81	St Catharine's Fire Dept
153.850	XJH250	Calgary Fire Dept, Dispatch Chan #A
153.860	XJI43	Pickering Fire Dept, Durham
	XJH346	Ajax Dire Dept, Durham
153.905	XJJ466	Toronto Metro Ambulance, East Sector
153.950	XJG68	Toronto Metro Fire Control
154.070		Fire Dept Inter-System Special Use
		Ontario Fire Marshall Investigations
154.145	XJG97	Windsor Fire Dept Chan #1
154.280	XJG97	Windsor Fire Dept, Chan #2 (Tactical)
	XJH275	Bolton Fire Dept
154.325	XJJ55	Etobicoke Fire Dept
154.350	XJH55	Calgary Fire Dept, Chan #B (Alternate)
154.355		Edmonton Fire Dept
154.360		Edmonton Fire Dept
154.375		Edmonton Fire Dept
154.430	XJD87	Scarborough Fire Dept, Toronto
154.435		Calgary Paramedic's Dispatch Chan #F-4
154.460	XGO460	Ministry of Resources, Ontario
154.625	XJJ54	Halton Regional Police
154.710	XJJ54	Halton Regional Police
154.800	XJH269	Gravehurst Fire Dept
154.800	XJF275	Brantford Fire Dept
154.830	XJH275	Brampton Fire Dept
154.890	XJF89	York Fire Dept, Toronto
154.920	XJJ466	Toronto Mtero Ambulance, Tactical
154.950	XJK27	Mississauga Fire Dept, Airport
154.950		Royal Canadian Mounted Police
155.310	XMY311	Security
155.370		Smith Ambulance Company, Edmonton
155.400	XJF72	Toronto Metro Police, Division #5
155.550	XJF72	Toronto Metro Police, Division #4
155.670		Royal Canadian Mounted Police
156.150	XJI728	Peel Regional Police, North Channe;
156.240	XJF72	Toronto Metro Police, Division #3
158.755		Smith Ambulance Company, Edmonton
158.765		Smith Ambulance Company, Edmonton
158.770		Smith Ambulance Company, Edmonton
162.33	CJY20	Radio Station CFRB, Toronto

Continued on Page 74

ARCTIC OCEAN
ASIA
NORTH AMERICA
NORTH PACIFIC OCEAN
NORTH ATLANTIC OCEAN
EUROPE
ASIA
AFRICA
INDIAN OCEAN
SOUTH AMERICA
AUSTRALIA
SOUTH PACIFIC OCEAN
SOUTH ATLANTIC OCEAN
ARCTIC OCEAN
-1 DAY
+1 DAY
+3h 30m
+3h 45m
+3h 30m
+44m
4h 30m
3h 30m
5h 30m
8h 30m
7h30m
5h 30m
6h 30m
9h30m
+3
+3
F -6
G -7
H -8
I -9
K -10
L -11
MY -12+
X +11
W +10
V +9
U +8
T +7
S +6
R +5
Q +4
P +3
O +2
N +1
Z 0
A -1
B -2
C -3
D -4
E -5
F -6
PM
MIDNIGHT
AM
NOON
Even numbered zone
Odd numbered zone
Half hour zone
Countries and areas which have not adopted zone system, or where time differs other than half hour from neighboring zones.